

004207" 5F06360

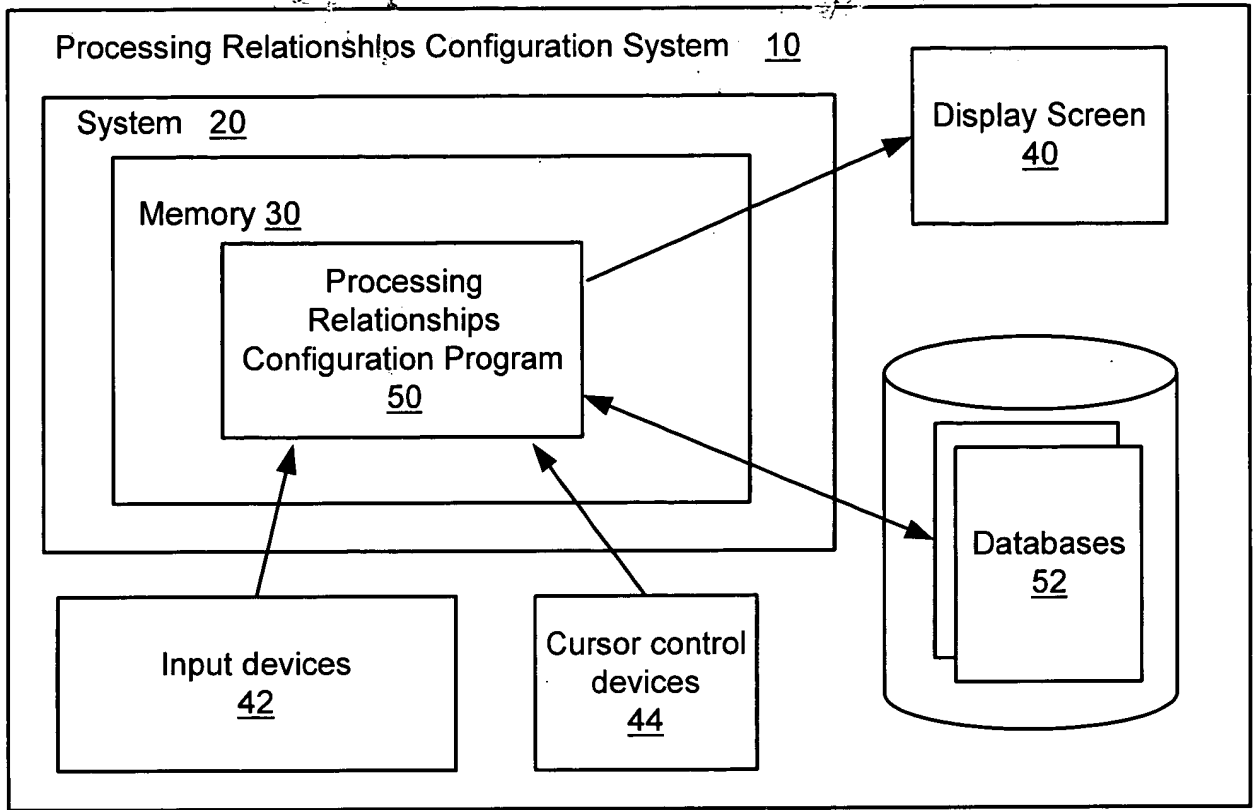


FIG. A-1a

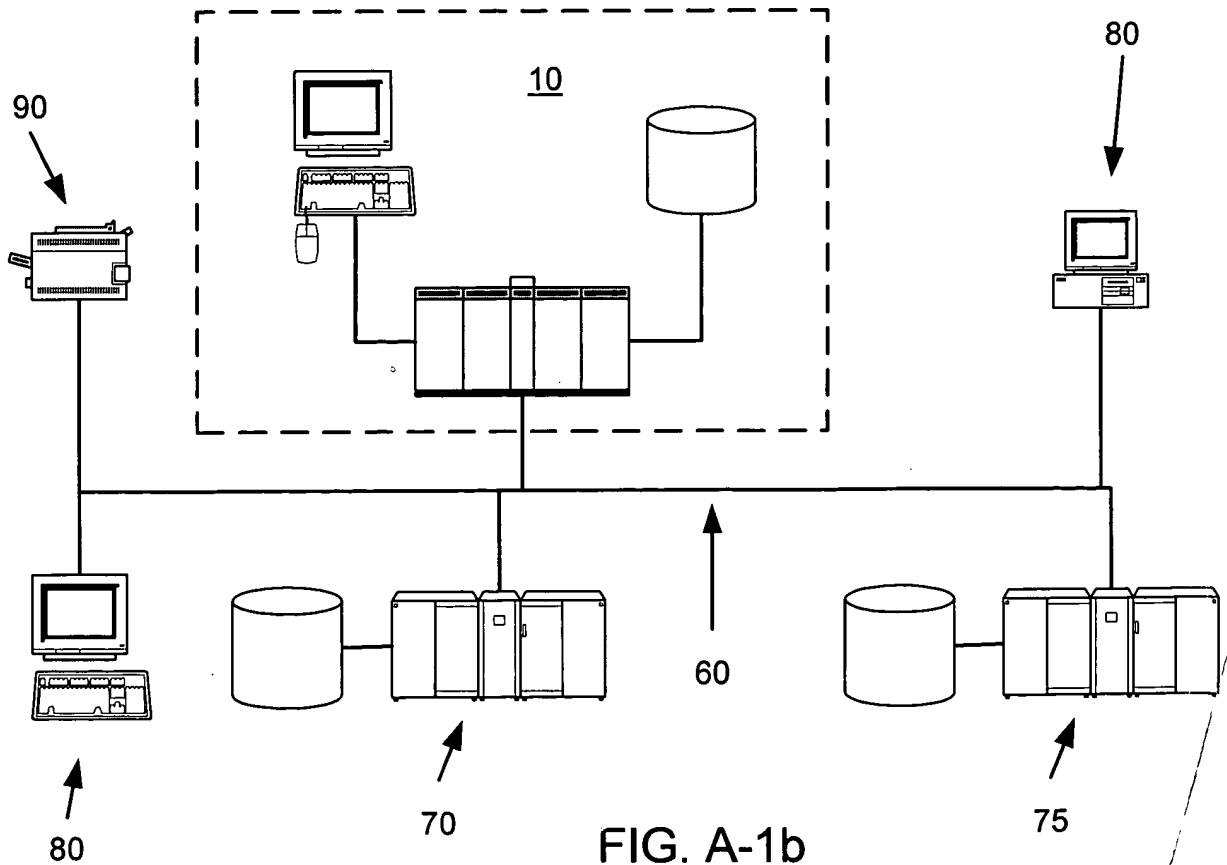


FIG. A-1b

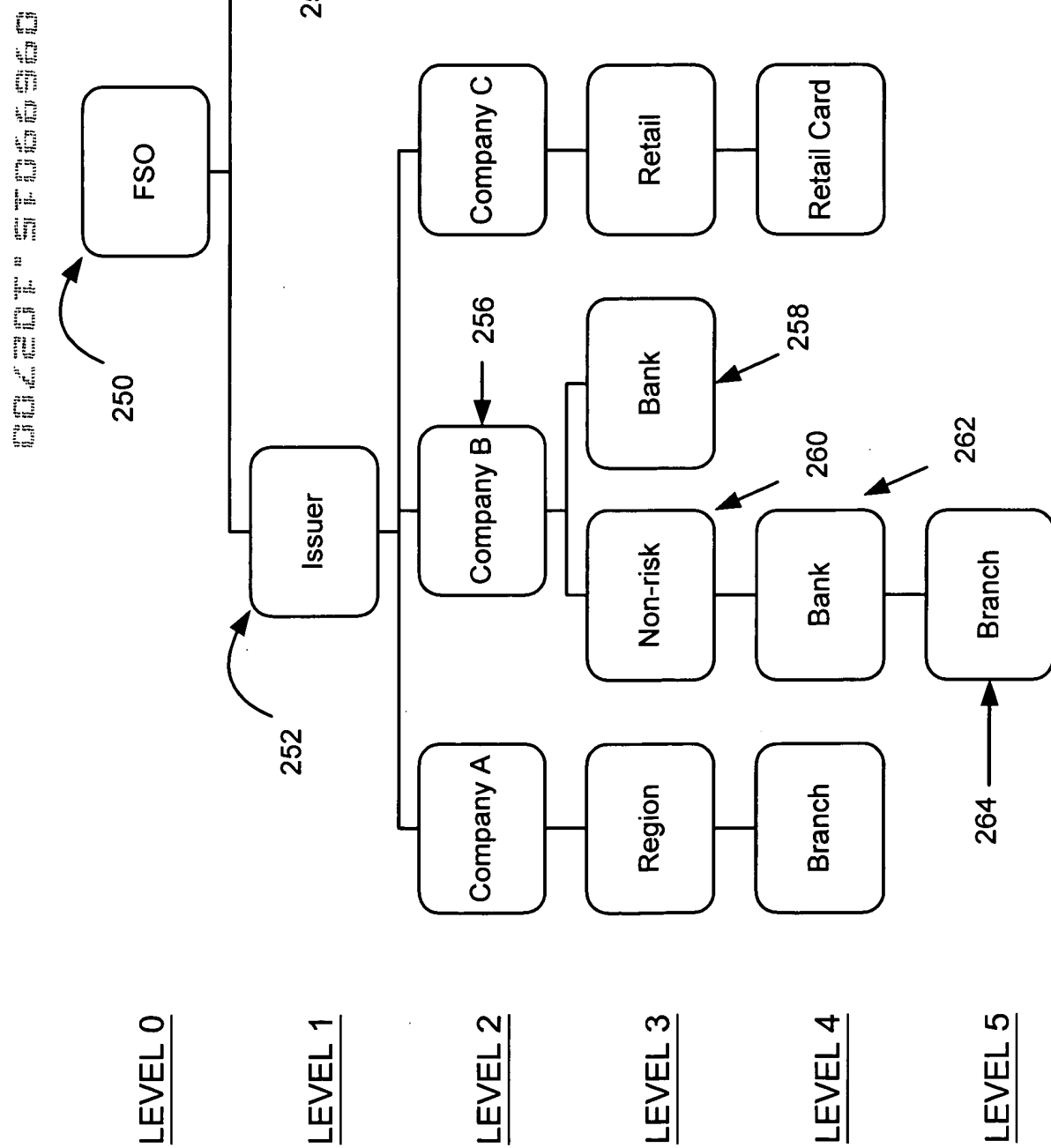


FIG. A-2

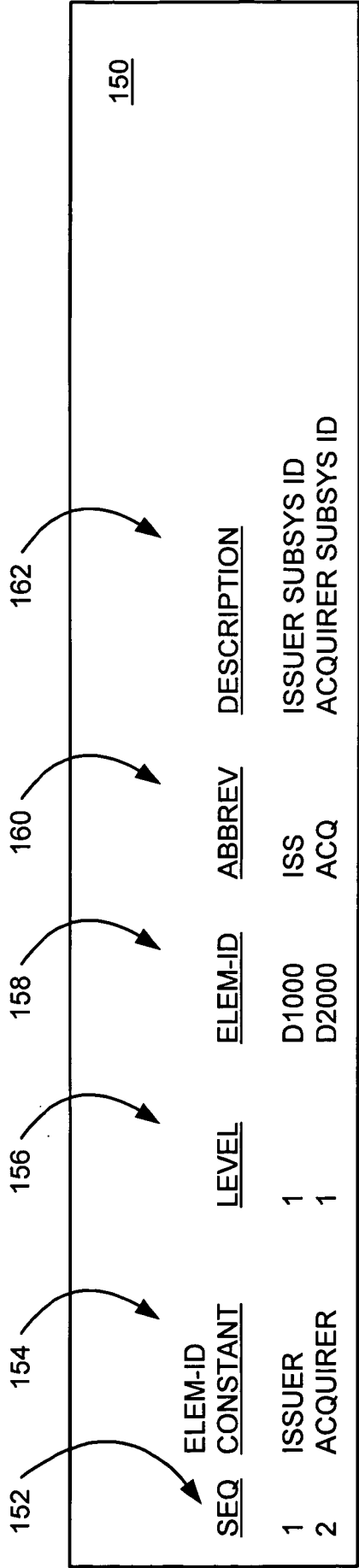


FIG. A-3

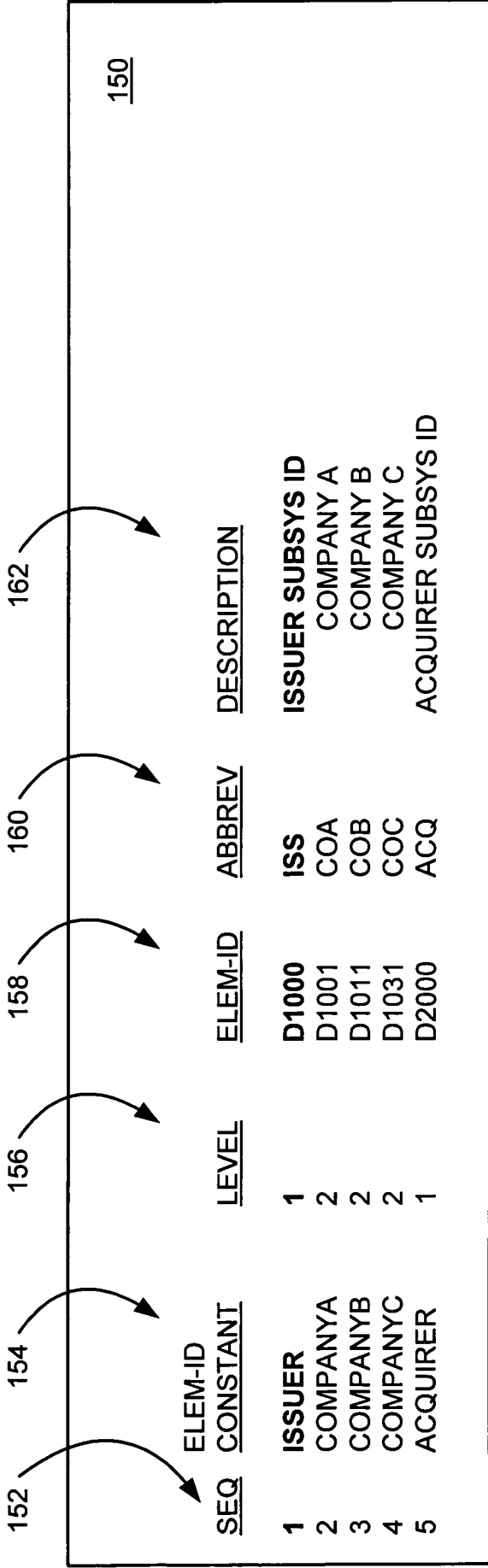


FIG. A-4

002207 57066900

152	154	156	158	160	162	150
<u>SEQ</u>	<u>ELEM-ID</u>	<u>CONSTANT</u>	<u>LEVEL</u>	<u>ELEM-ID</u>	<u>ABBREV</u>	<u>DESCRIPTION</u>
1	ISSUER		1	D1000	ISS	ISSUER SUBSYS ID
2	COMPANYA		2	D1001	COA	COMPANY A
3	COMPANYB		2	D1011	COB	COMPANY B
4	NONRISK		3	D1012	NON	NON-RISK ACCOUNTS
5	BANK		3	D1021	BNK	BANK
6	COMPANYC		2	D1031	COC	COMPANY C
7	ACQUIRER		1	D2000	ACQ	ACQUIRER SUBSYS ID

FIG. A-
5

152	154	156	158	160	162	150
SEQ	ELEM-CONSTANT	LEVEL	ELEM-ID	ABBREV	DESCRIPTION	
1	ISSUER	1	D1000	ISS	ISSUER SUBSYS ID	
2	COMPANYA	2	D1001	COA	COMPANY A	
3	REGION	3	D1002	RGN	REGIONAL OFFICE	
4	BRANCH	4	D1003	BRN	BRANCH OFFICE	
5	COMPANYB	2	D1011	COB	COMPANY B	
6	NONRISK	3	D1012	NON	NON-RISK ACCOUNTS	
7	BANK	4	D1013	BNK	NON-RISK BANK	
8	BRANCH	5	D1014	BRN	BANK BRANCH	
9	BANK	3	D1021	BNK	BANK	
10	COMPANYC	2	D1031	COC	COMPANY C	
11	RETAIL	3	D1032	RET	RETAIL STORE	
12	RETAILCARD	4	D1033	RTC	PRIVATE-LABEL CREDIT CARD	
13	ACQUIRER	1	D2000	ACQ	ACQUIRER SUBSYS ID	
14	COMPANYA	2	D2001	COA	COMPANY A	
15	REGION	3	D2002	RGN	REGIONAL OFFICE	
16	BRANCH	4	D2003	BRN	BRANCH OFFICE	
17	COMPANYB	2	D2011	COB	COMPANY B	
18	BANK	3	D2012	BNK	BANK	
19	BRANCH	4	D2013	BRN	BANK BRANCH	

FIG. A-

<u>ISS</u>	<u>COA</u>	<u>RGN</u>	<u>BRN</u>	<u>NODE NUMBER</u>
10, 10,	1, 1,	10, 10,	100 200	4 5

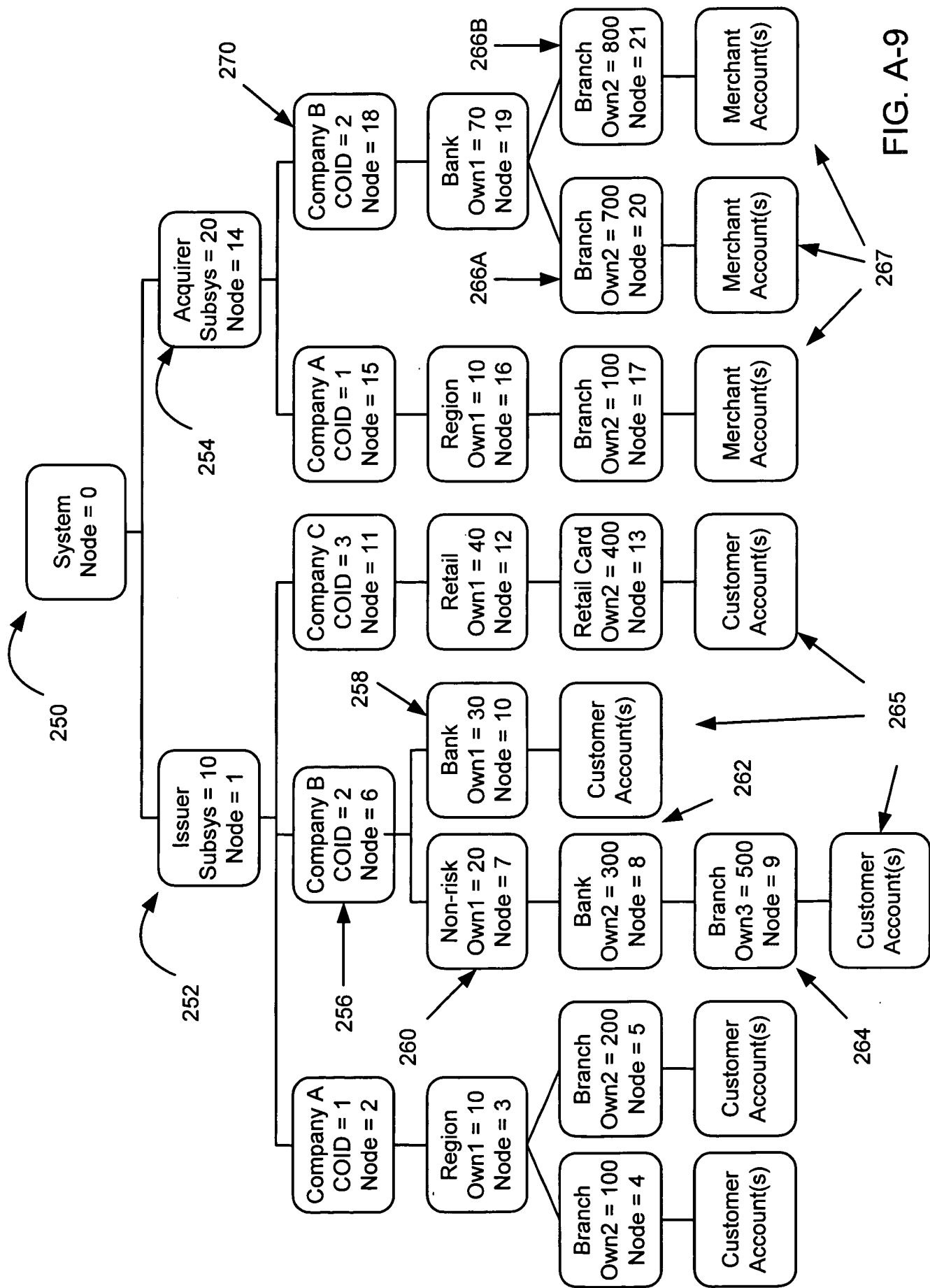
170

FIG. A-
7

<u>ACQ</u>	<u>COB</u>	<u>BNK</u>	<u>BRN</u>	<u>NODE NUMBER</u>
20, 20,	2, 2,	70, 70,	700 800	20 21

170

FIG. A-
8



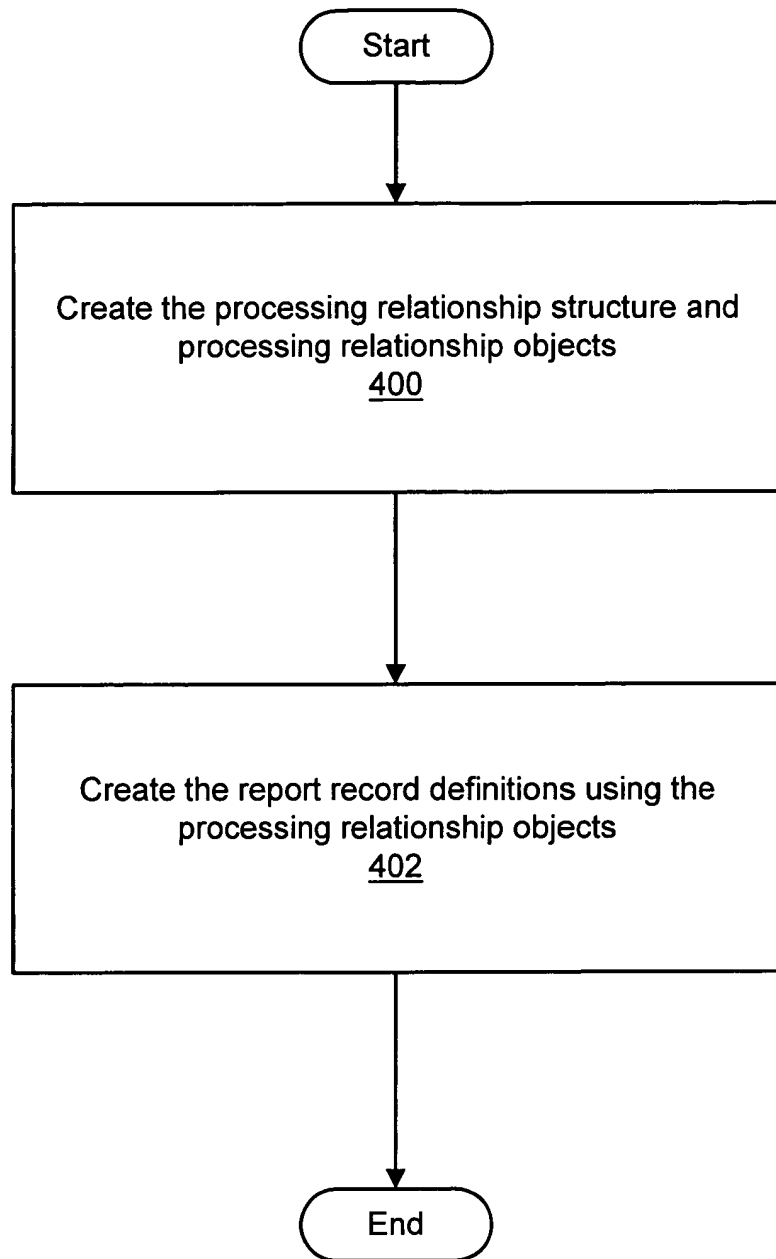


FIG. A-10a

20250727 14:56:56

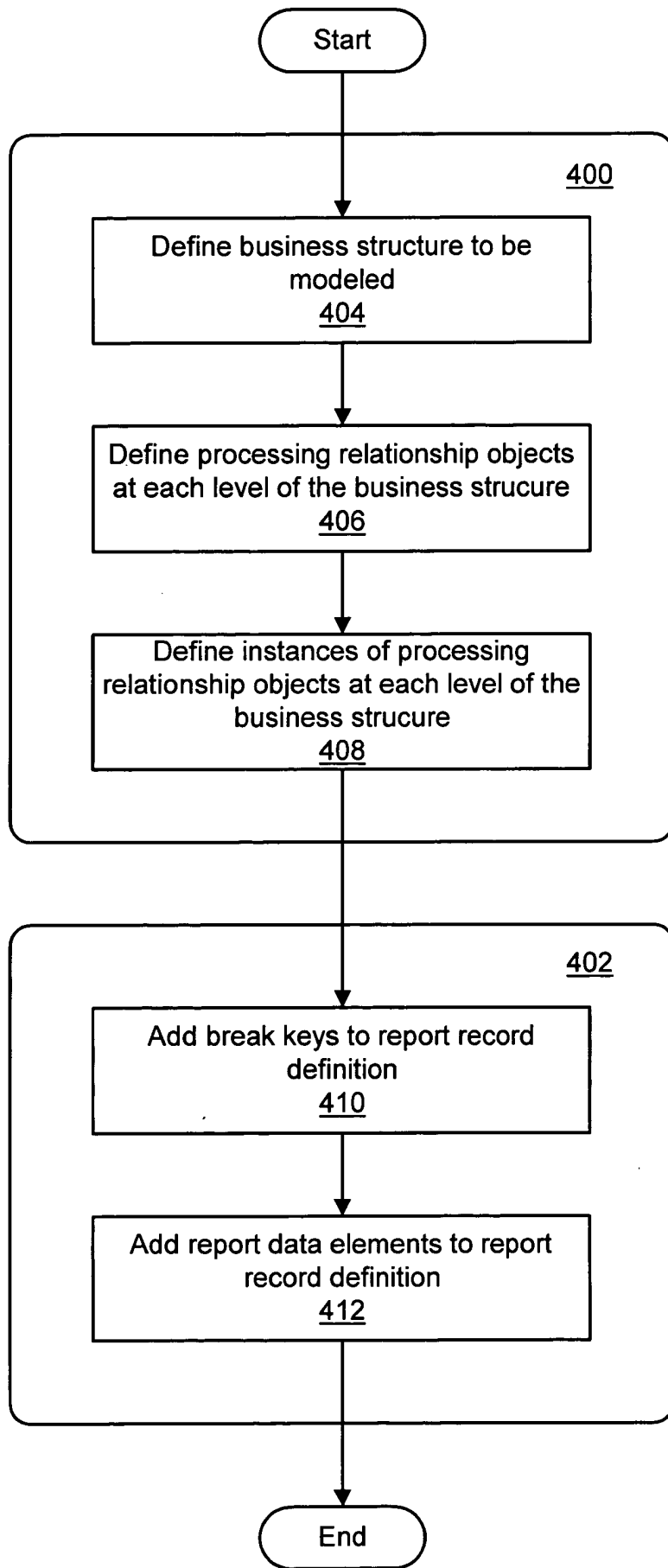


FIG. A-10b

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332207 " 57356560

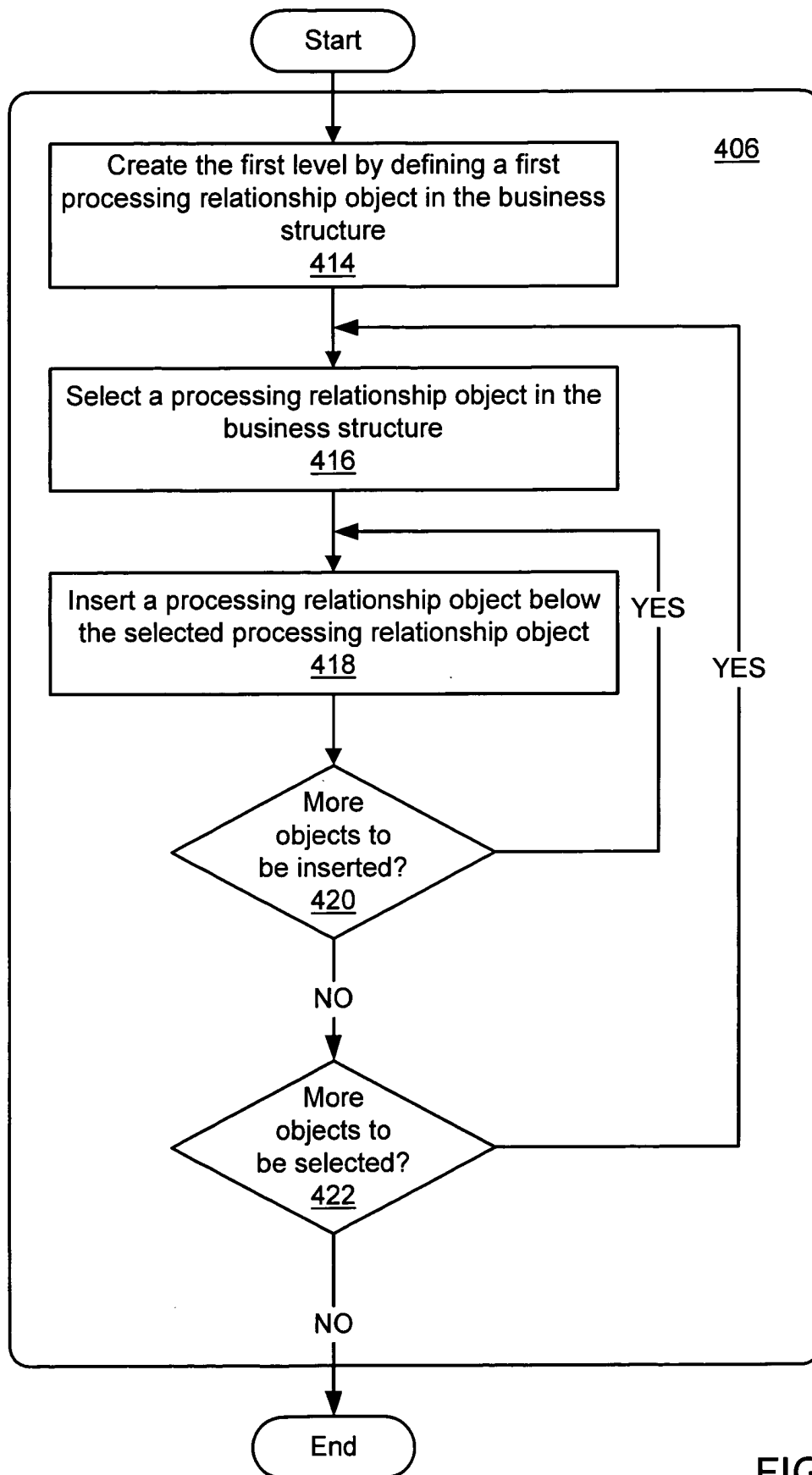


FIG. A-10c

11/07

002207" 5706560

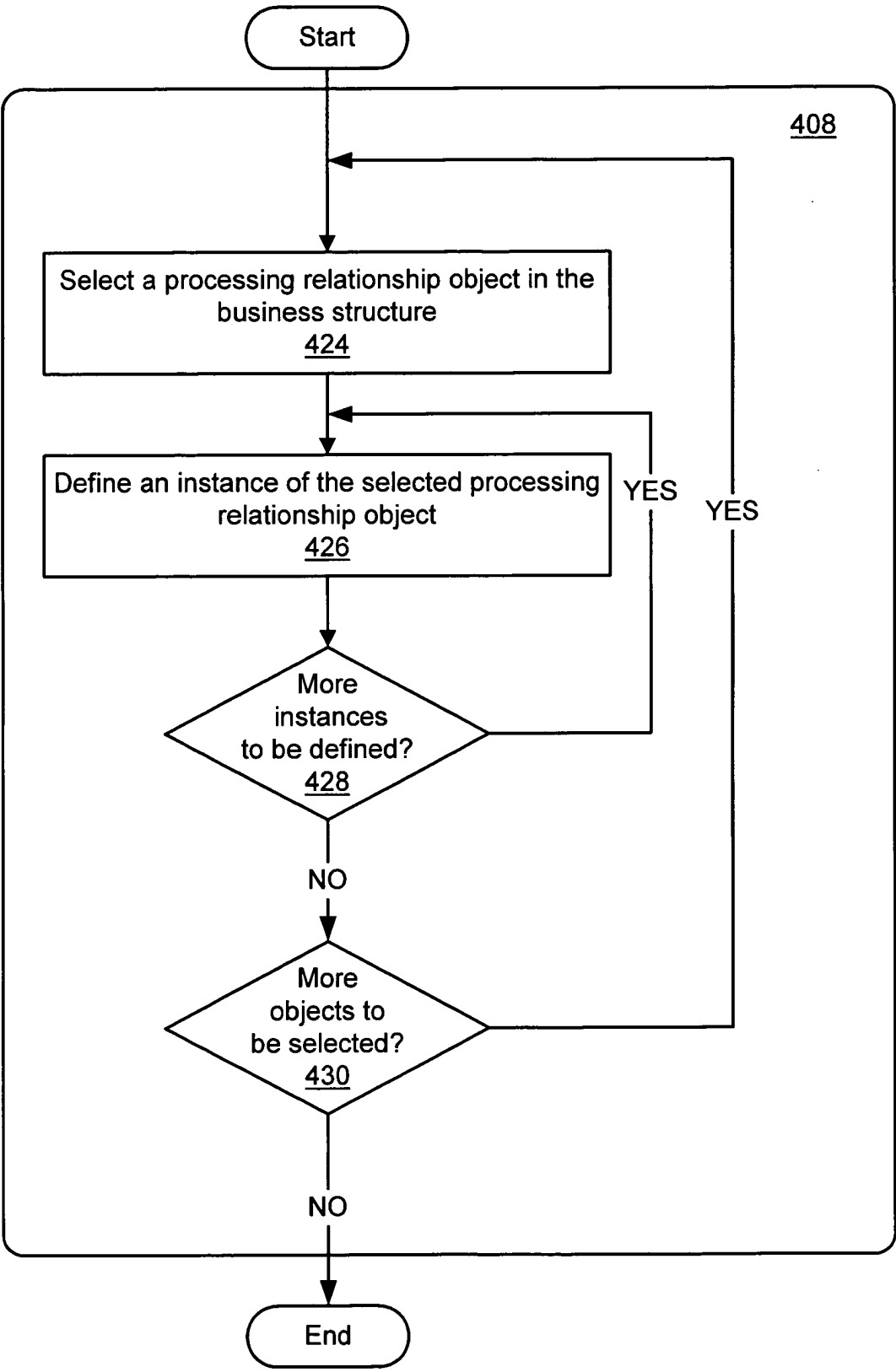


FIG. A-10d

FIG. A-11

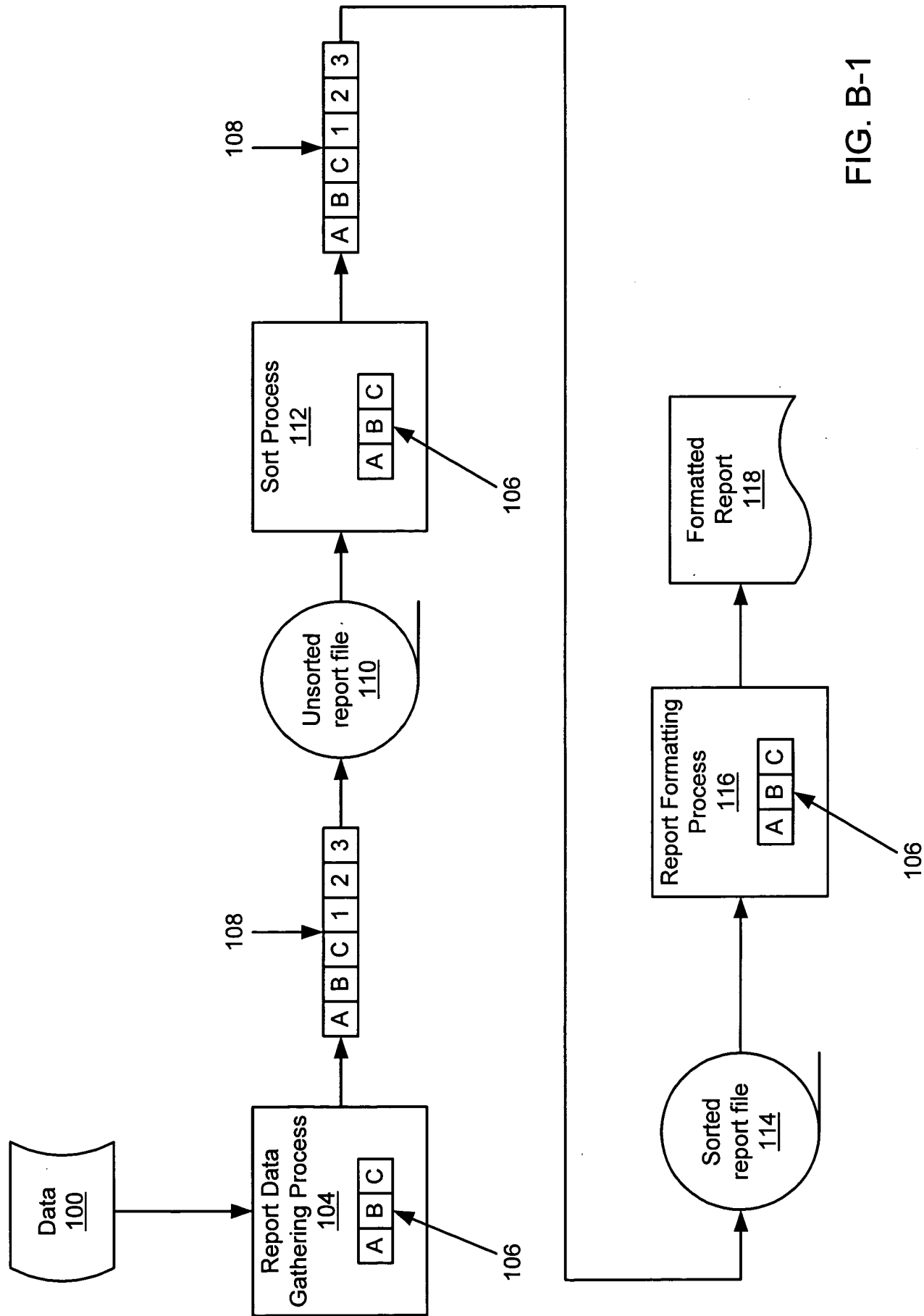


FIG. B-1

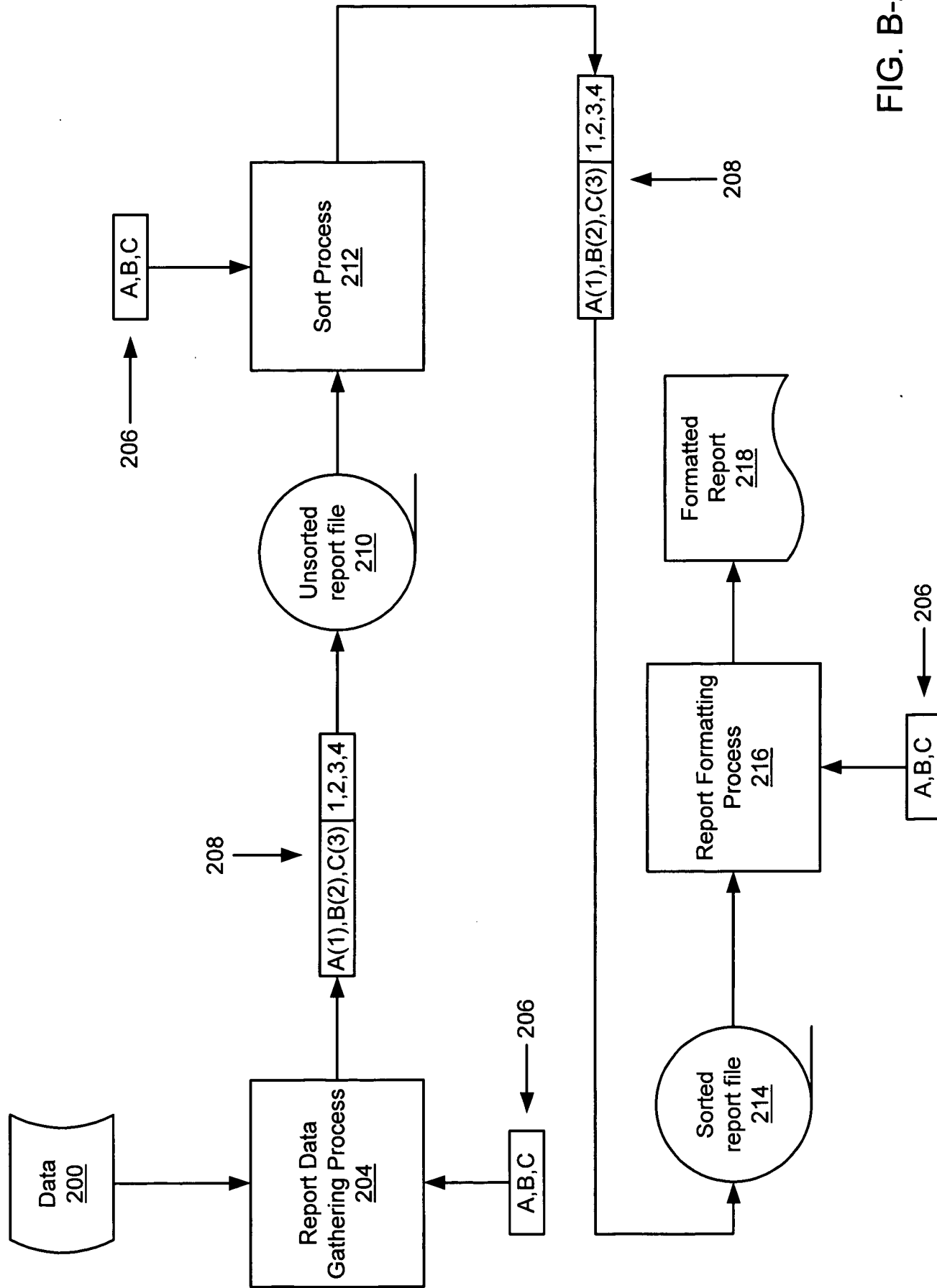


FIG. B-2

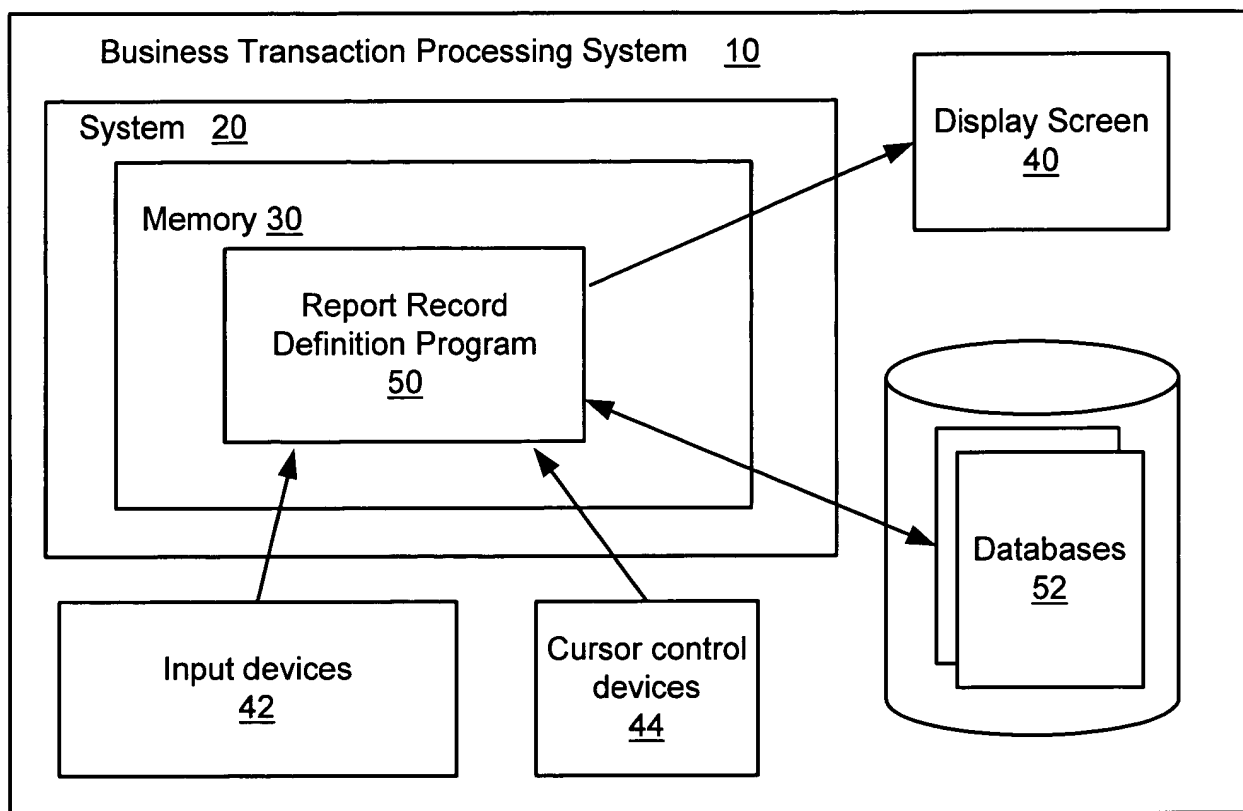


FIG. B-3a

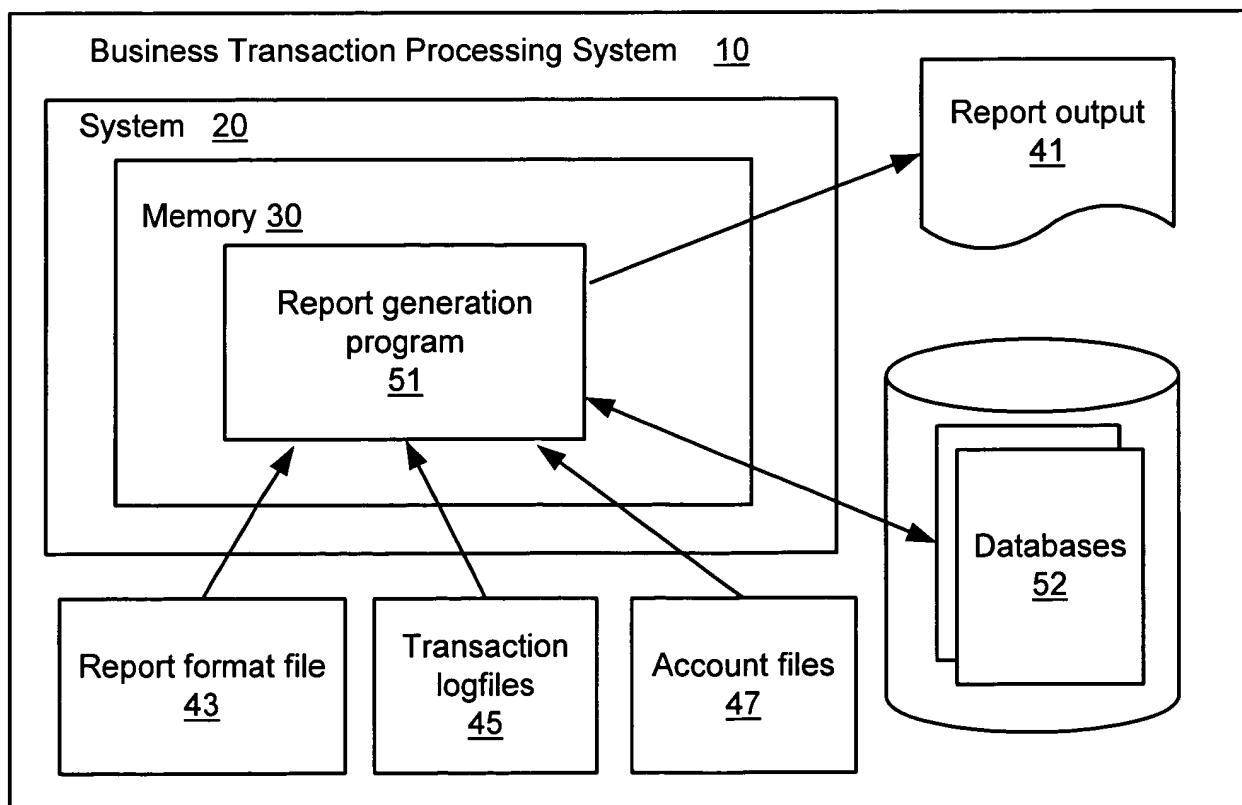
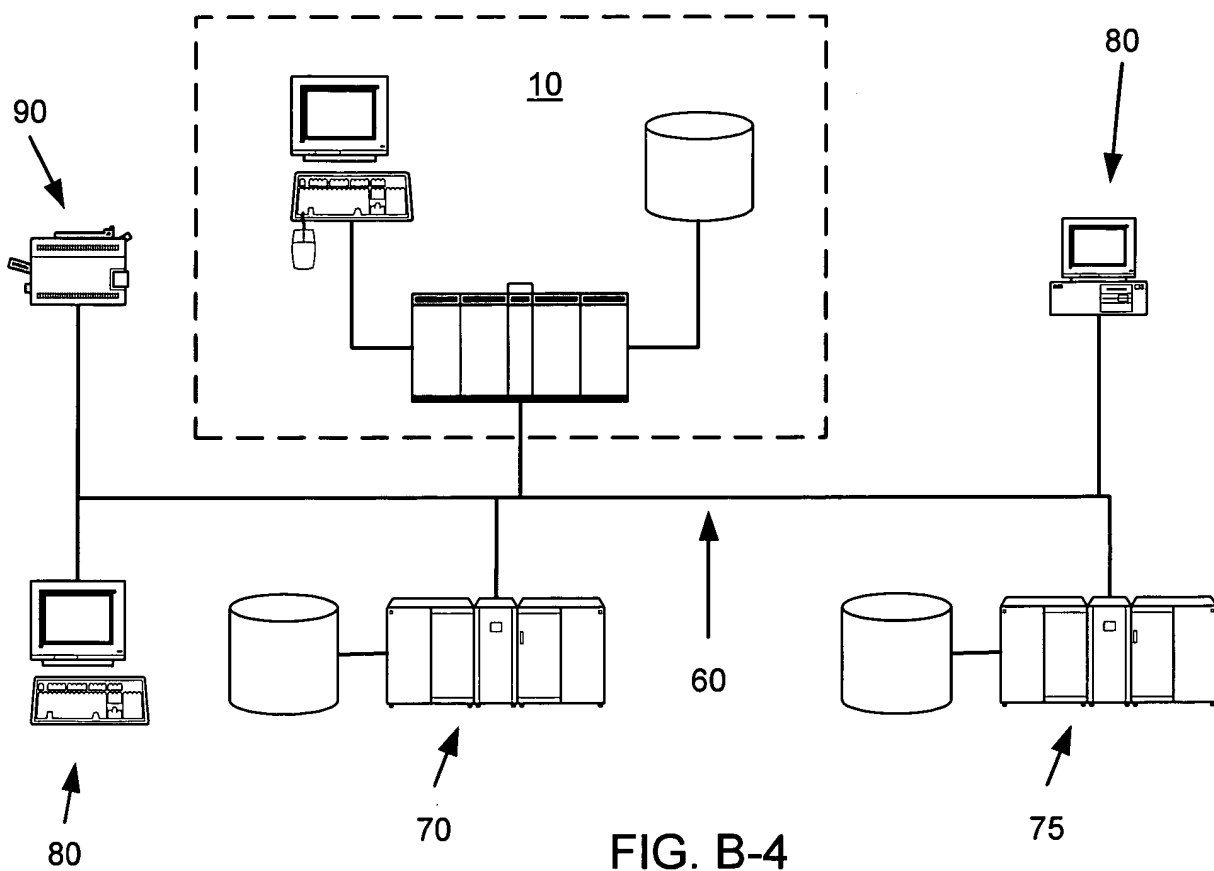


FIG. B-3b



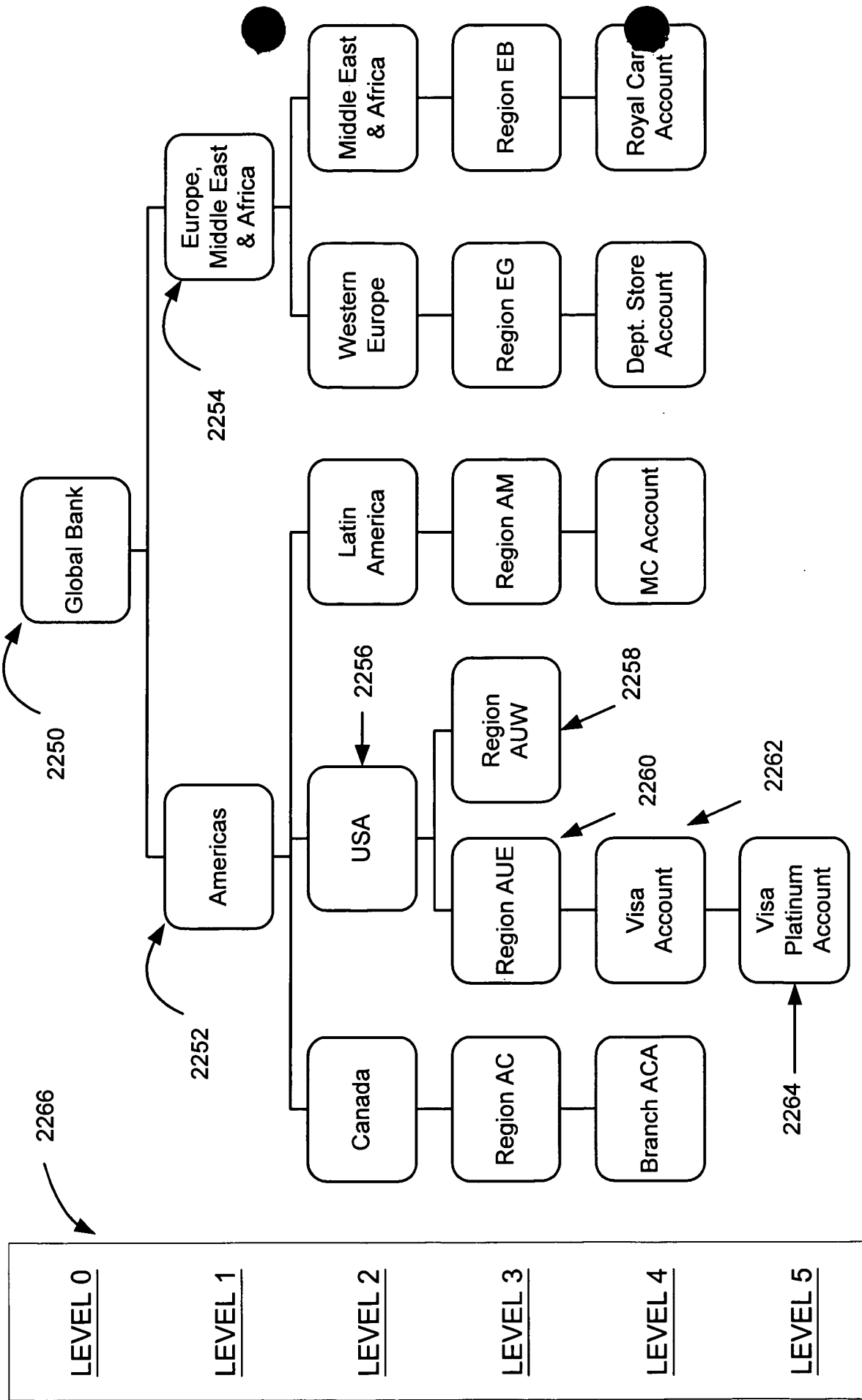
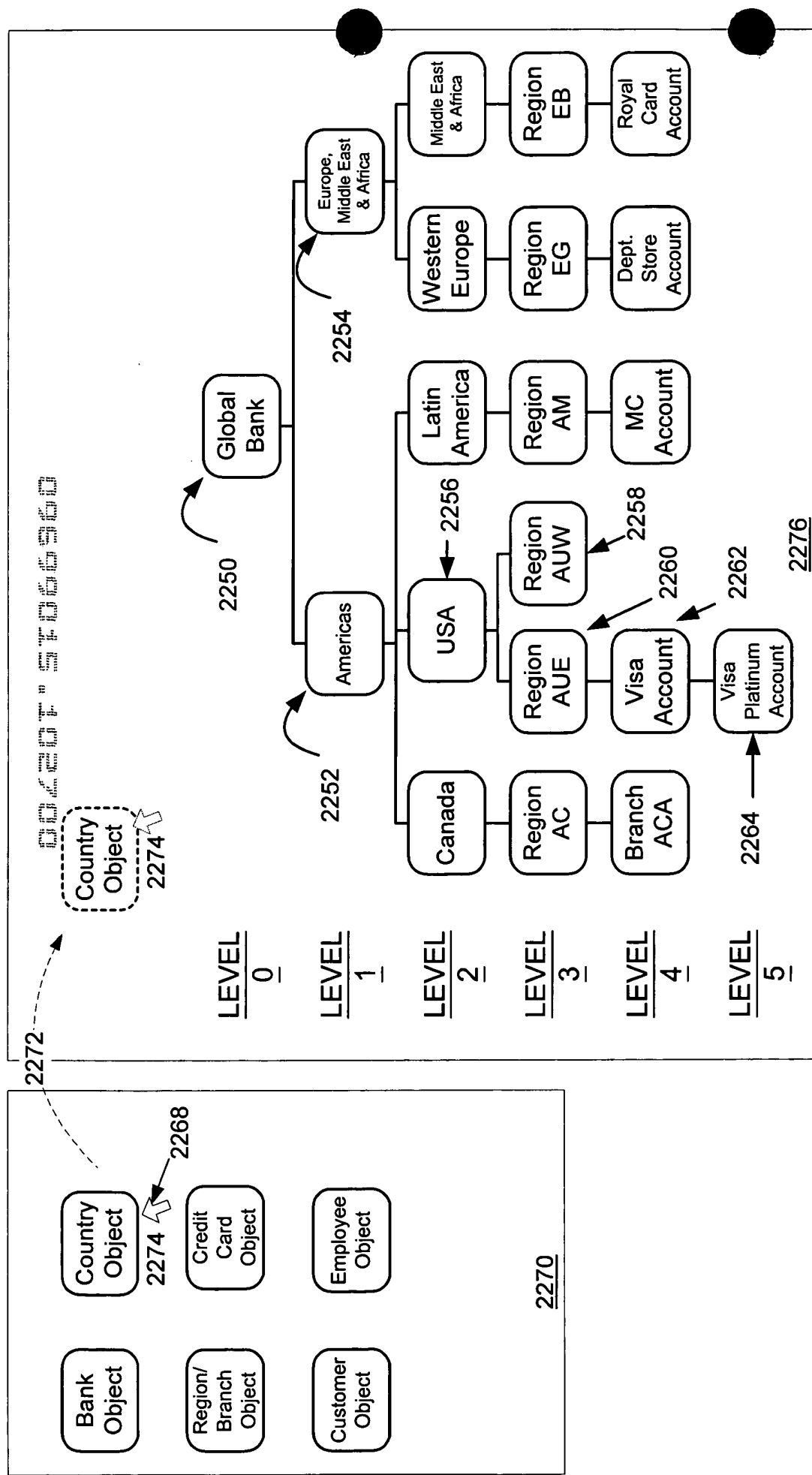


FIG. B-5a

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18 Jan

ELEM-ID				
SEQ	CONSTANT	LEVEL	ELEM-ID	DESCRIPTION
0	GBANK	0	D2250	GLOBAL BANK CORPORATION

150

FIG. B-5c

ELEM-ID				
SEQ	CONSTANT	LEVEL	ELEM-ID	DESCRIPTION
0	GBANK	0	D2250	GLOBAL BANK CORPORATION
1	AMERICA	1	D2252	AMERICAS BUSINESS UNIT

150

FIG. B-5d

ELEM-ID				
SEQ	CONSTANT	LEVEL	ELEM-ID	DESCRIPTION
0	GBANK	0	D2250	GLOBAL BANK CORPORATION
1	AMERICA	1	D2252	AMERICAS BUSINESS UNIT
2	EMA	1	D2254	EUROPE, MID. EAST & AFRICA BUSINESS UNIT

150

CODE SET 5106560

LEVEL 0

LEVEL 1

LEVEL 2

LEVEL 3

LEVEL 4

LEVEL 5

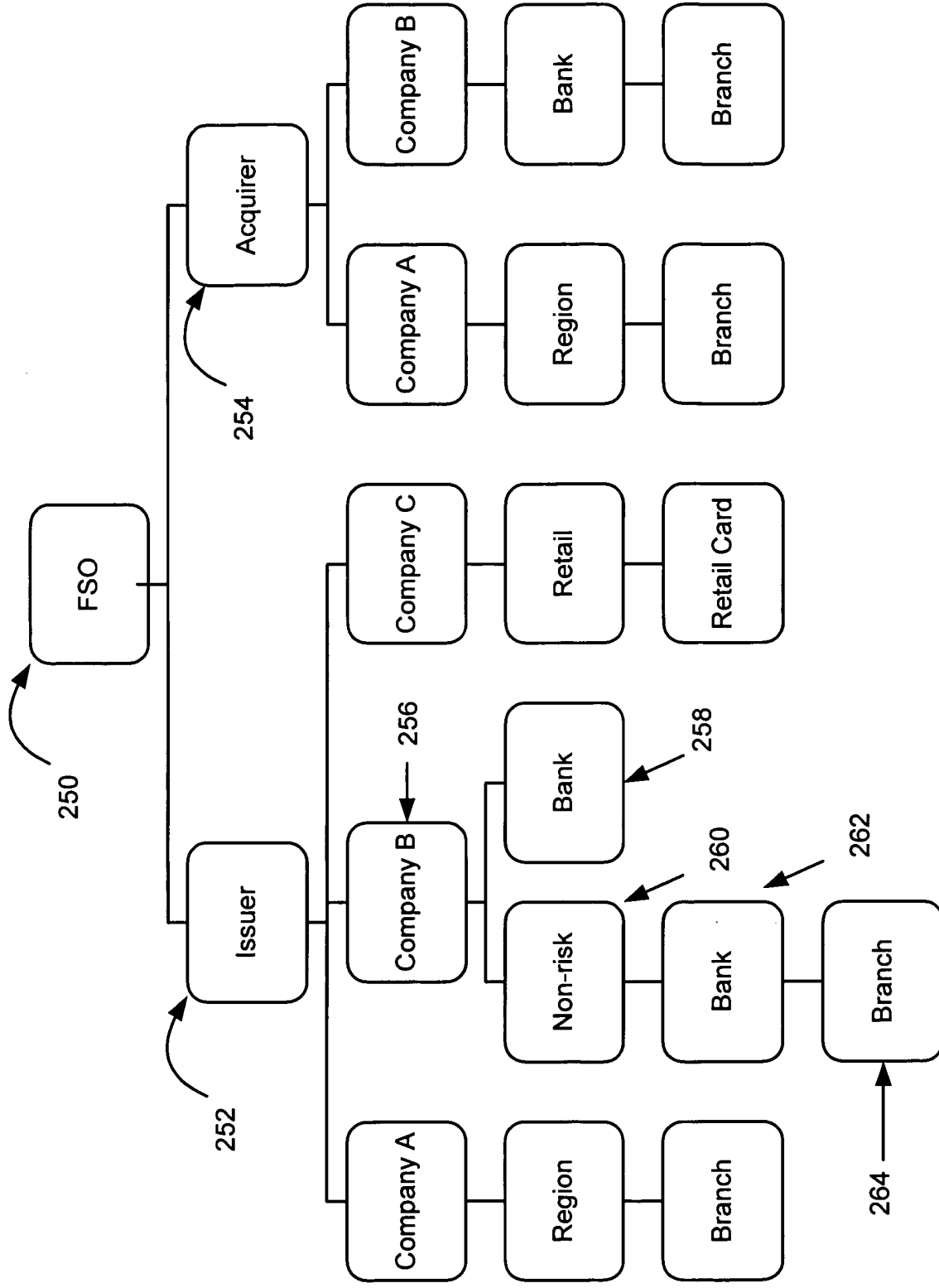


FIG.B-5f

152	154	156	158	160	162	150
SEQ	ELEM-CONSTANT	LEVEL	ELEM-ID	ABBREV	DESCRIPTION	
1	ISSUER	1	D1000	ISS	ISSUER SUBSYS ID	
2	COMPANYA	2	D1001	COA	COMPANY A	
3	REGION	3	D1002	RGN	REGIONAL OFFICE	
4	BRANCH	4	D1003	BRN	BRANCH OFFICE	
5	COMPANYB	2	D1011	COB	COMPANY B	
6	NONRISK	3	D1012	NON	NON-RISK ACCOUNTS	
7	BANK	4	D1013	BNK	NON-RISK BANK	
8	BRANCH	5	D1014	BRN	BANK BRANCH	
9	BANK	3	D1021	BNK	BANK	
10	COMPANYC	2	D1031	COC	COMPANY C	
11	RETAIL	3	D1032	RET	RETAIL STORE	
12	RETAILCARD	4	D1033	RTC	PRIVATE-LABEL CREDIT CARD	
13	ACQUIRER	1	D2000	ACQ	ACQUIRER SUBSYS ID	
14	COMPANYA	2	D2001	COA	COMPANY A	
15	REGION	3	D2002	RGN	REGIONAL OFFICE	
16	BRANCH	4	D2003	BRN	BRANCH OFFICE	
17	COMPANYB	2	D2011	COB	COMPANY B	
18	BANK	3	D2012	BNK	BANK	
19	BRANCH	4	D2013	BRN	BANK BRANCH	

FIG. B-6

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FIG. B-7

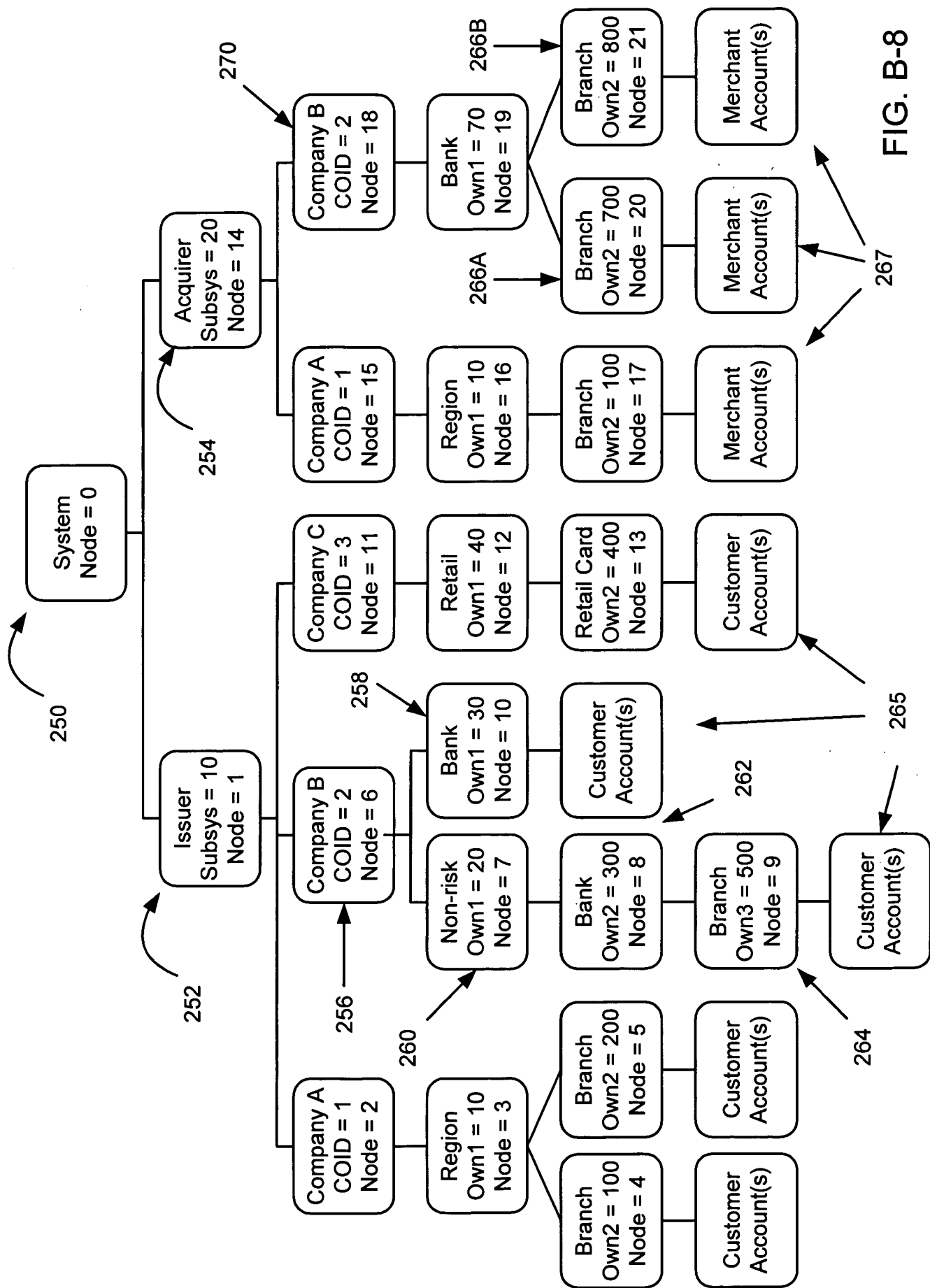


Diagram illustrating a table structure (130) with columns and rows. The columns are labeled: SEQ, BRK LVL, ELEM-ID, ABBREV, and DESCRIPTION. The rows are labeled: 1, 1, D1013, NODE-NUM, PROC REL NODE NUMBER and 2, 2, D1045, ACCT-TP, ACCOUNT TYPE. Callouts 132, 134, 136, 138, and 139 point to the SEQ, BRK LVL, ELEM-ID, ABBREV, and DESCRIPTION columns respectively.

<u>SEQ</u>	<u>BRK LVL</u>	<u>ELEM-ID</u>	<u>ABBREV</u>	<u>DESCRIPTION</u>
1	1	D1013	NODE-NUM	PROC REL NODE NUMBER
2	2	D1045	ACCT-TP	ACCOUNT TYPE

130

FIG. B-9

002017 9406360

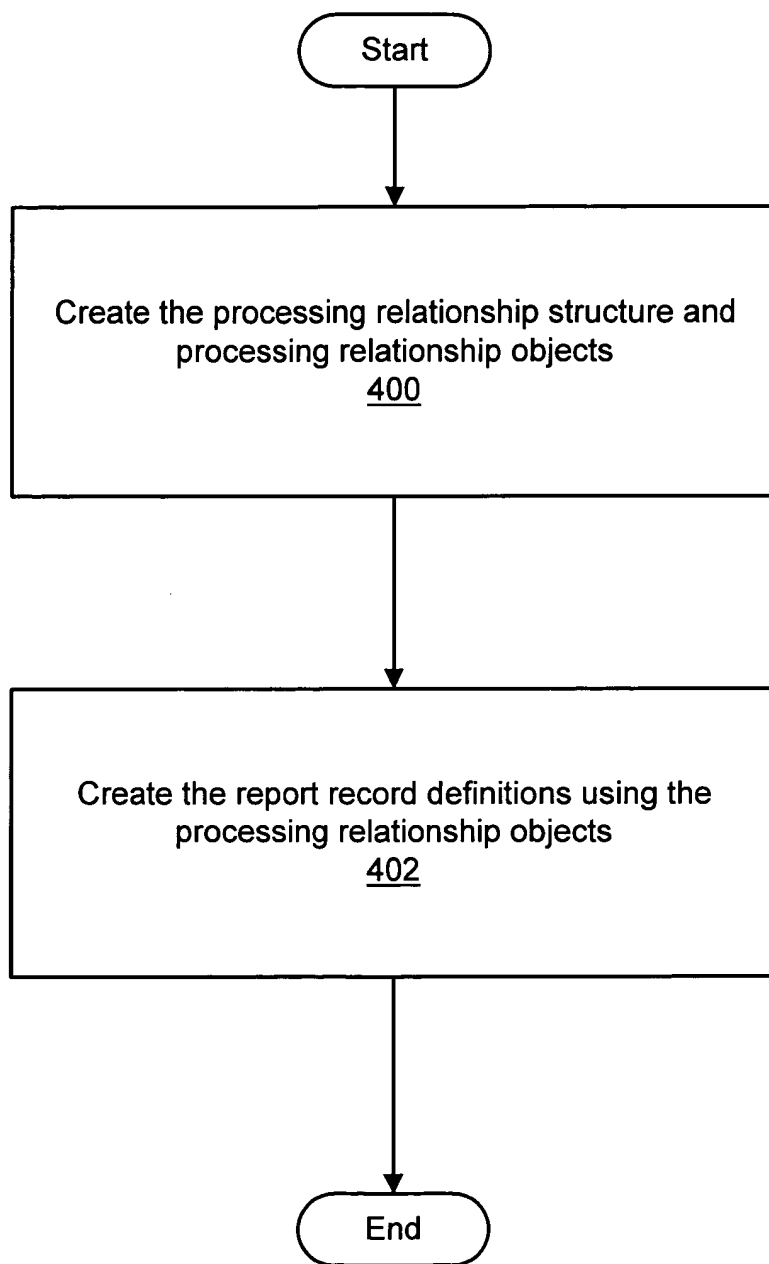


FIG. B-10a

002201"5T066960

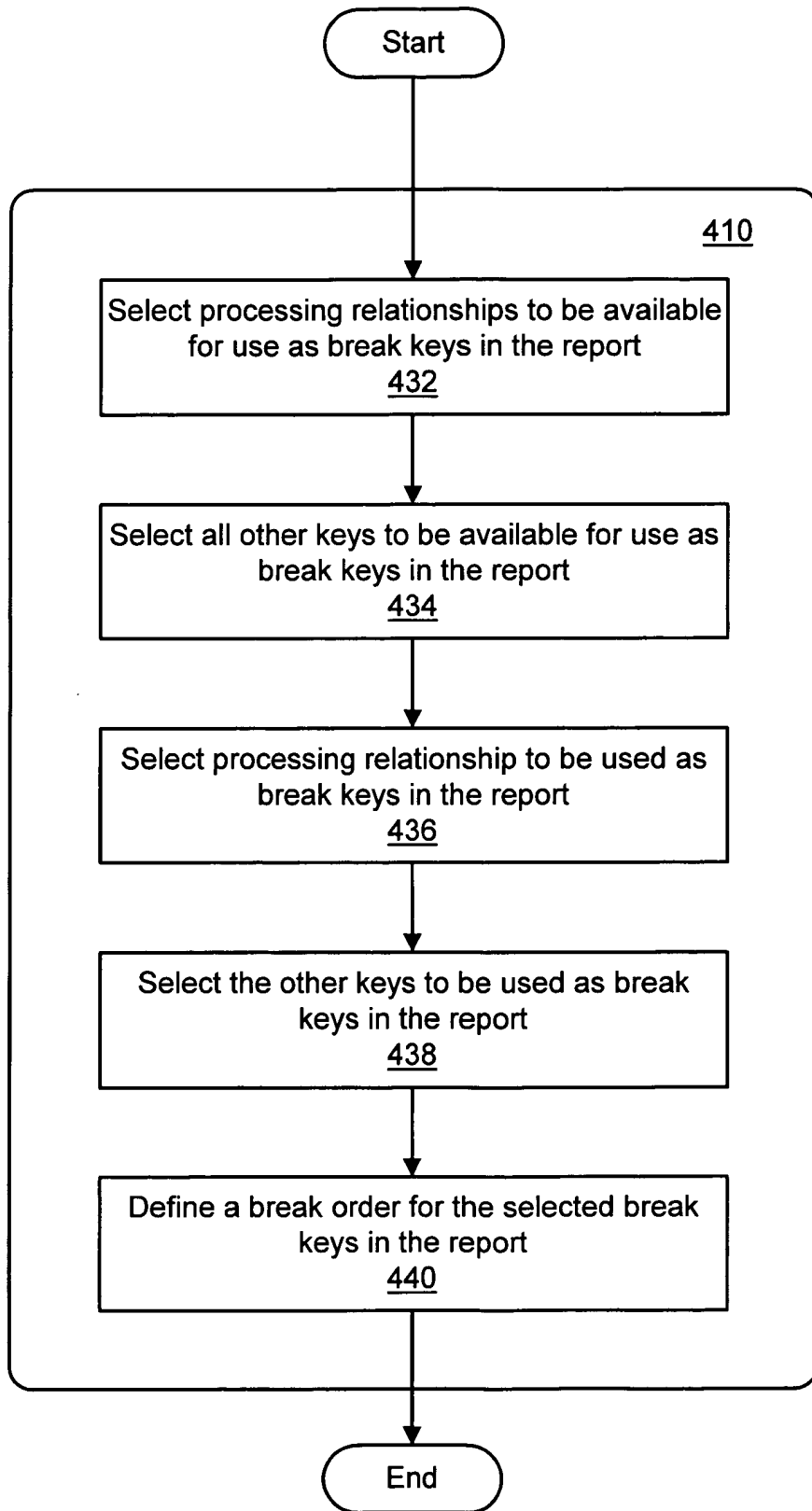
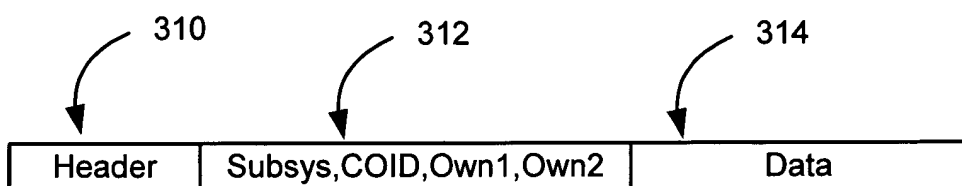
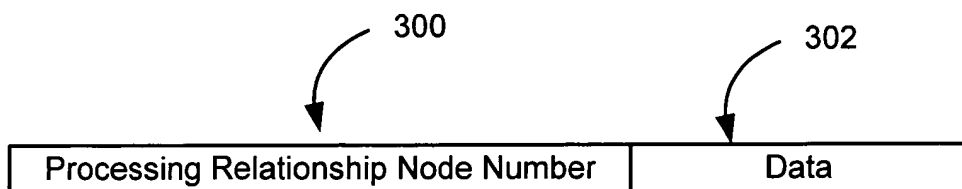
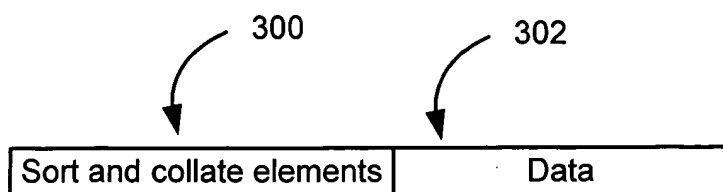


FIG. B-10c



Header	10,1,10,200	Data
Header	10,1,10,100	Data
Header	10,1,10,100	Data
Header	10,1,20,100	Data
Header	10,2,10,300	Data
Header	10,1,10,200	Data
Header	20,1,10,100	Data
Header	10,1,10,100	Data

Header	310	312	314
Header	10,1,10,100		Data
Header	10,1,10,100		Data
Header	10,1,10,100		Data
Header	10,1,10,200		Data
Header	10,1,10,200		Data
Header	10,1,20,100		Data
Header	10,2,10,300		Data
Header	20,1,10,100		Data

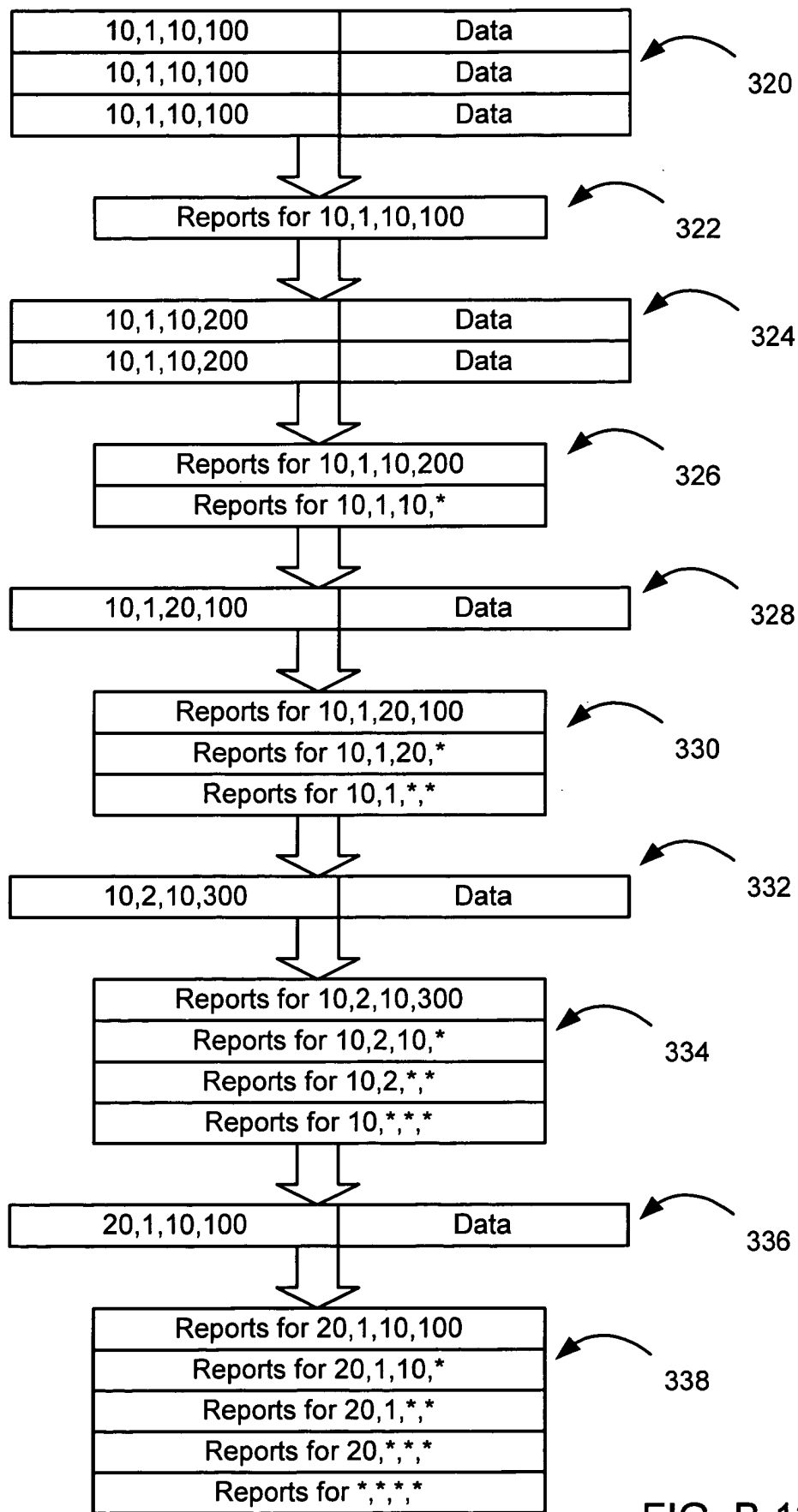
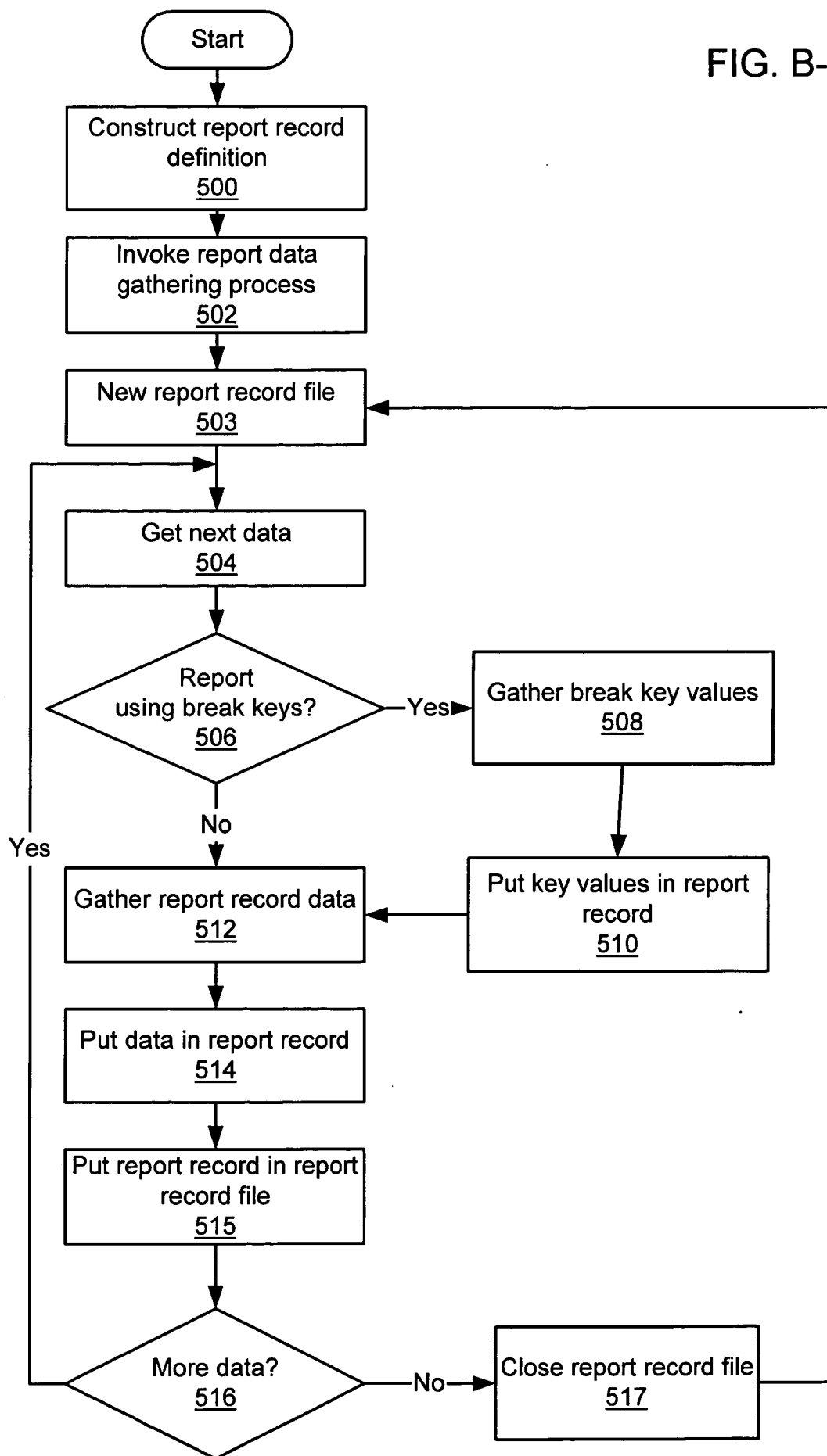
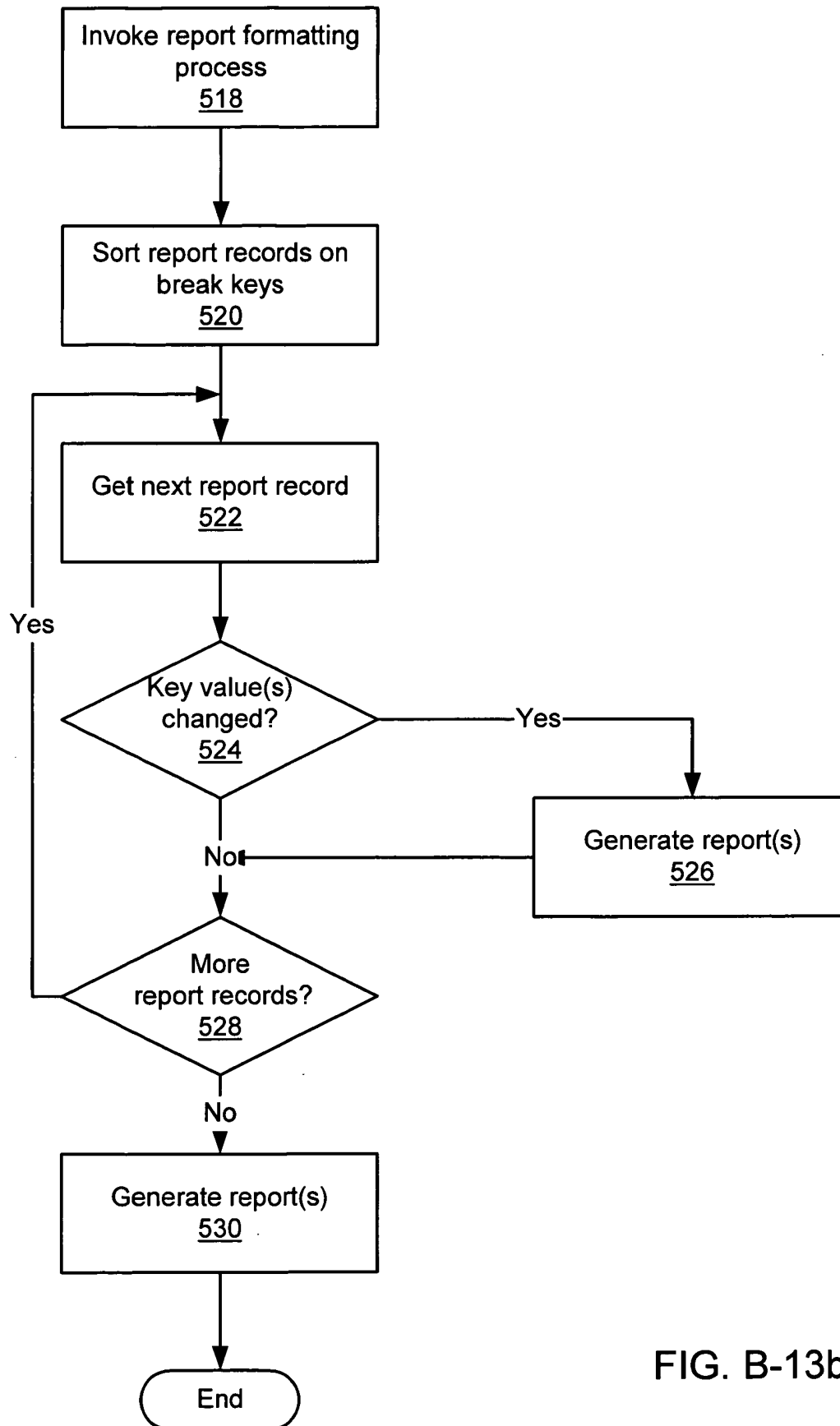


FIG. B-13a



306/47 "516556"



12	10,1,10,100
2	10,1,10,200
3	10,1,20,100
9	10,2,10,300
6	20,1,10,100

FIG. B-14

00207 57066560



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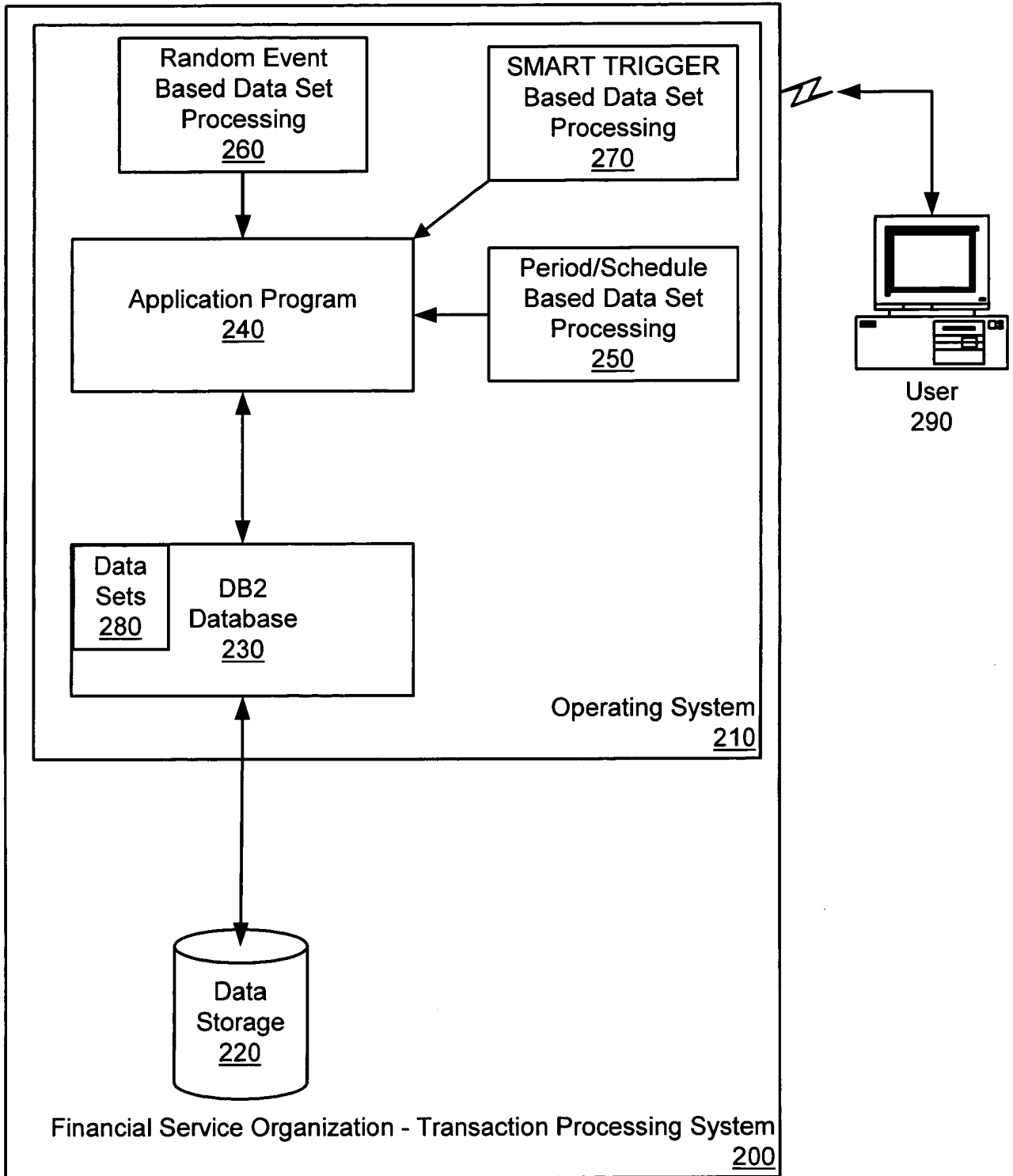


Figure C-2

0022015106360

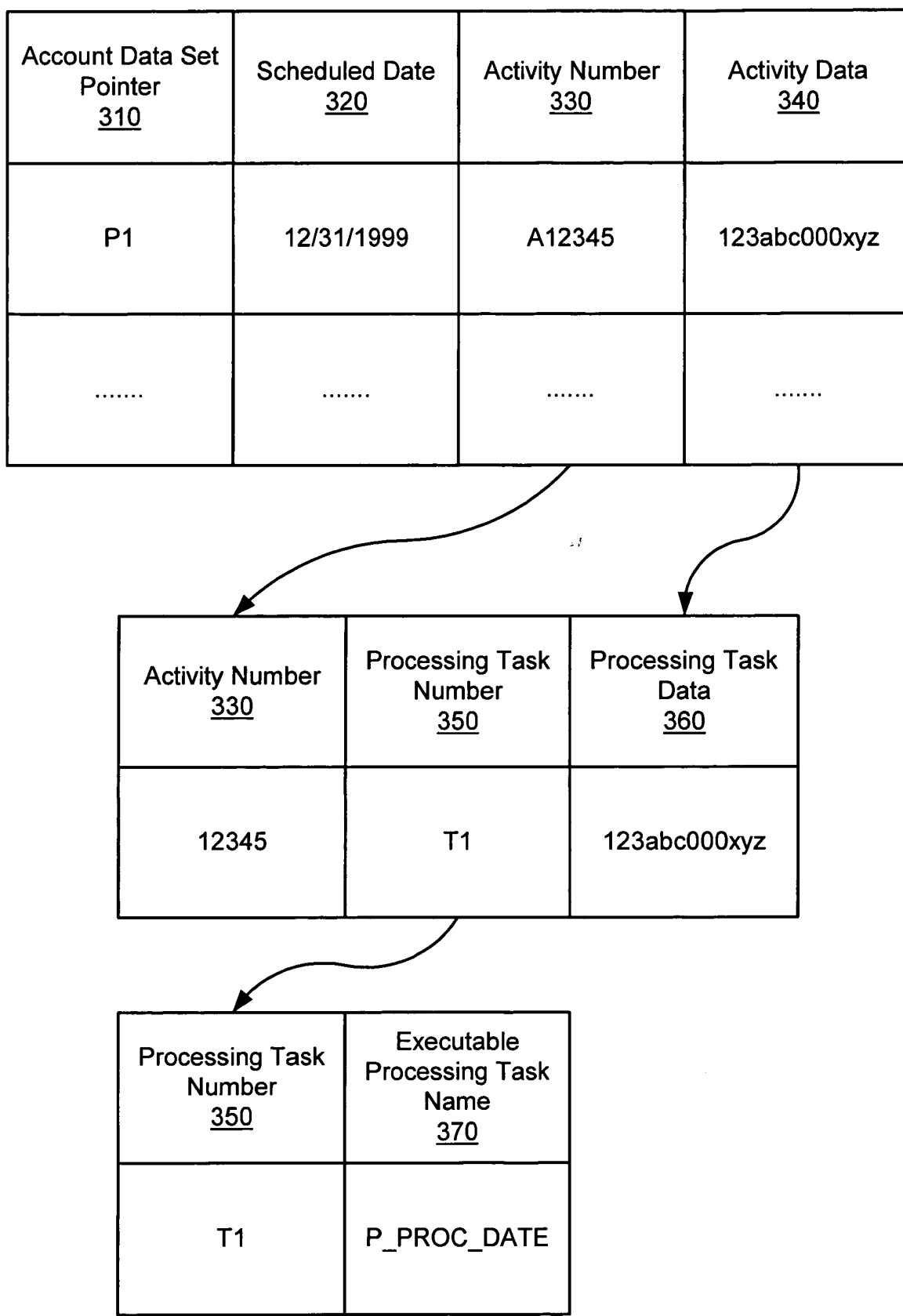
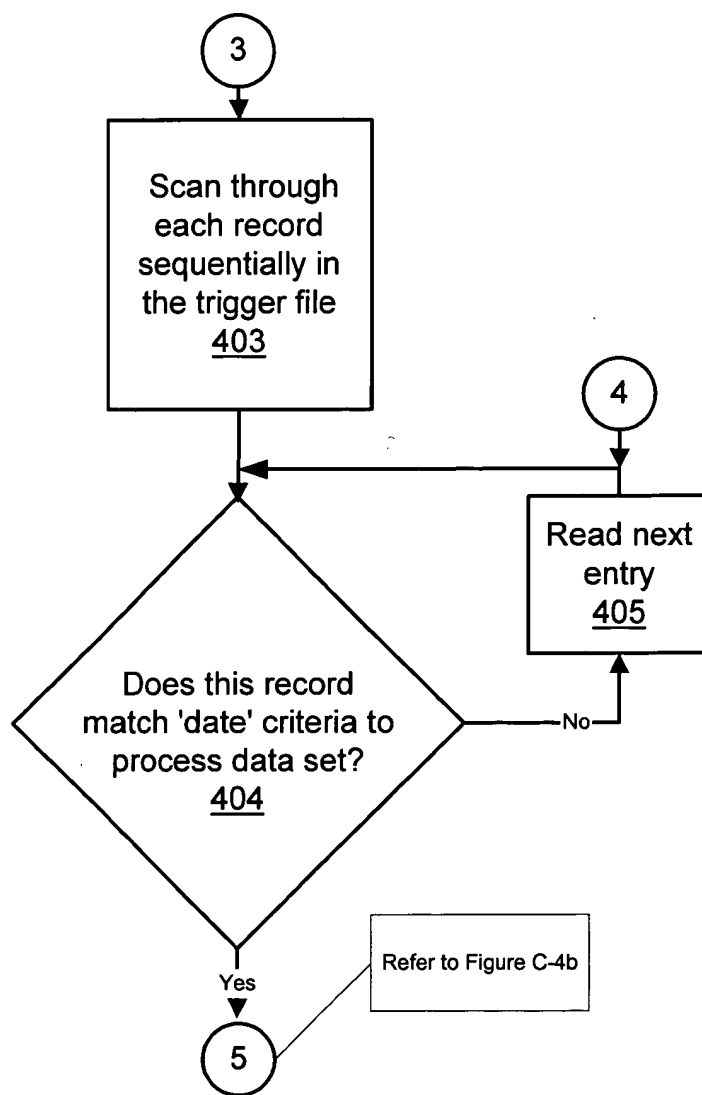
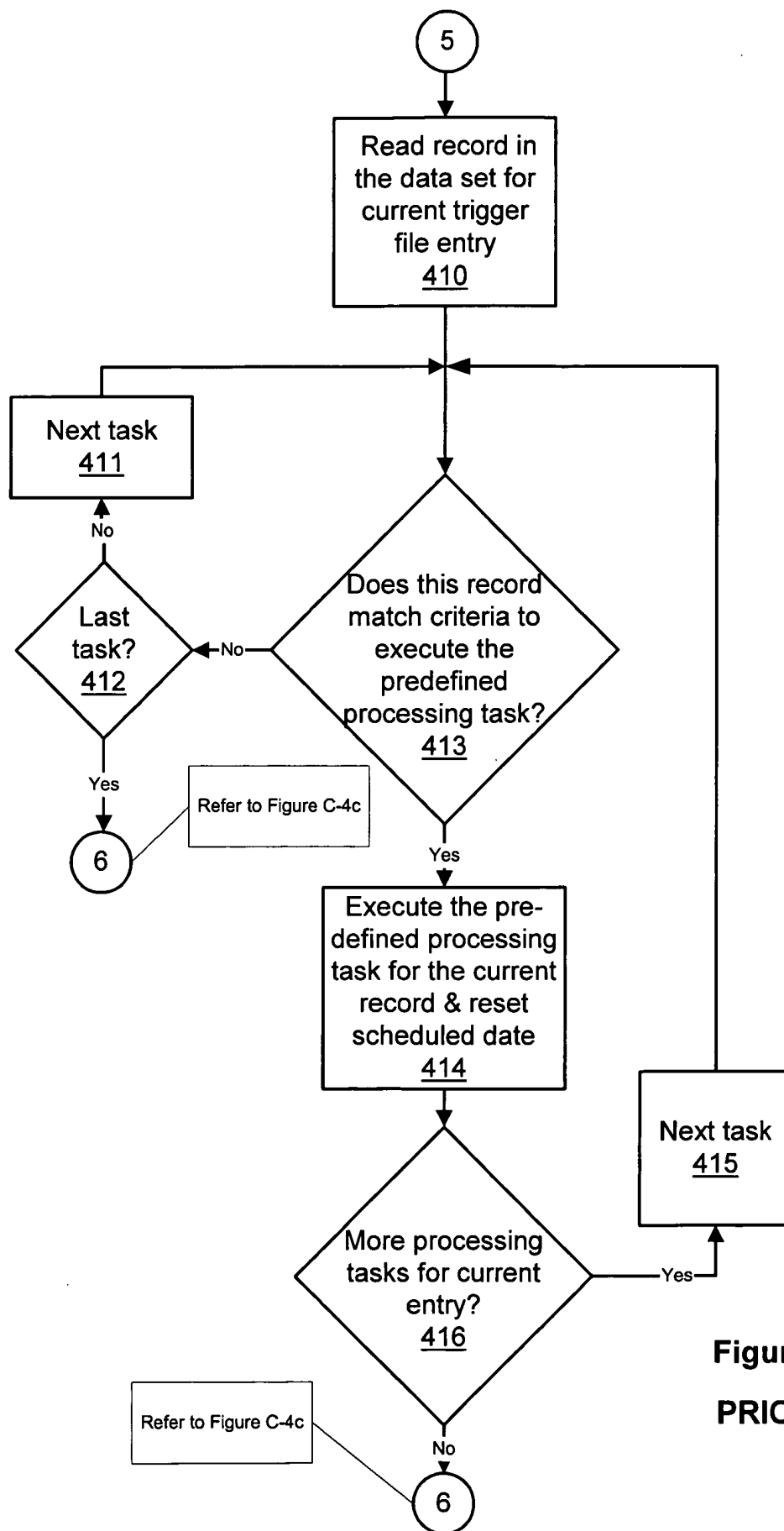


Figure C-3a

Figure C-3b



PRIOR ART



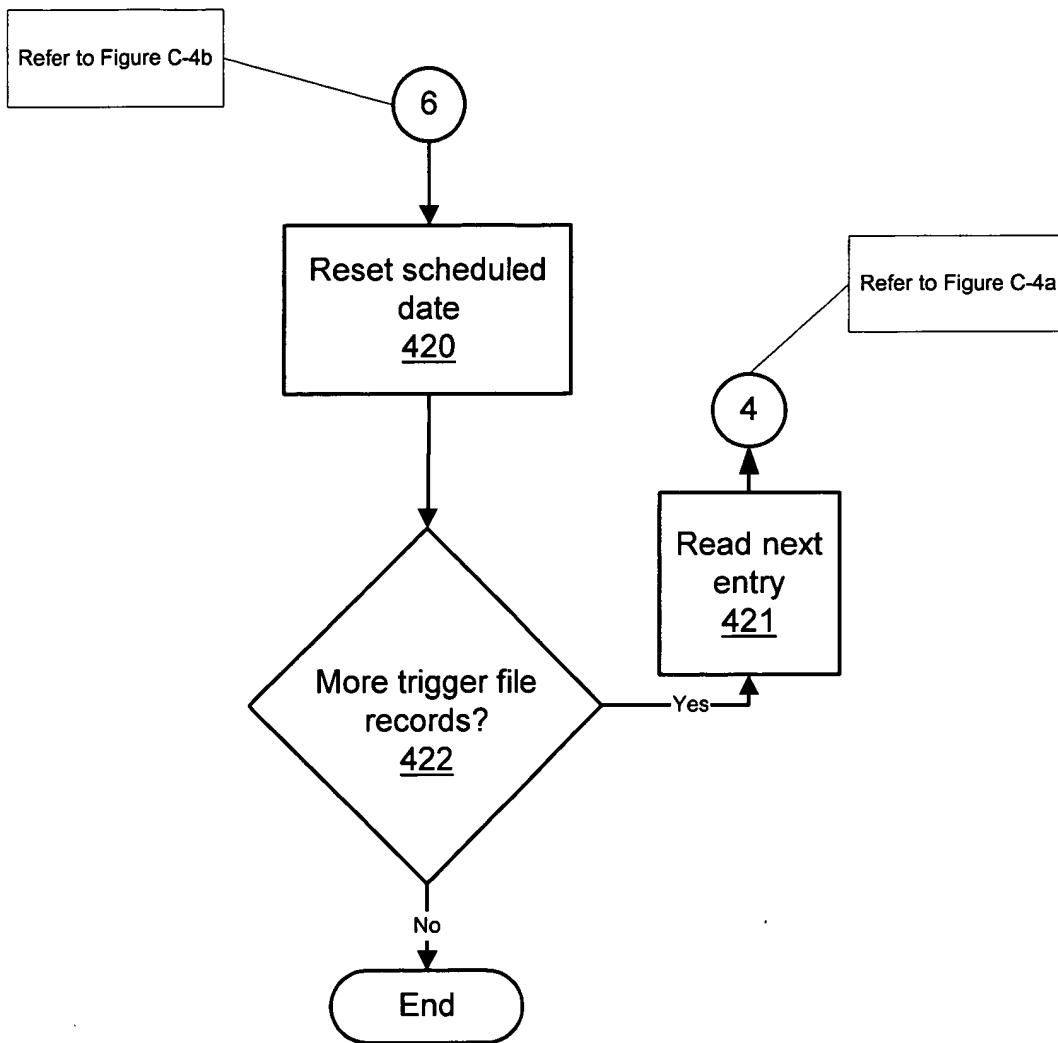


Figure C-4c

PRIOR ART

002001 9106360

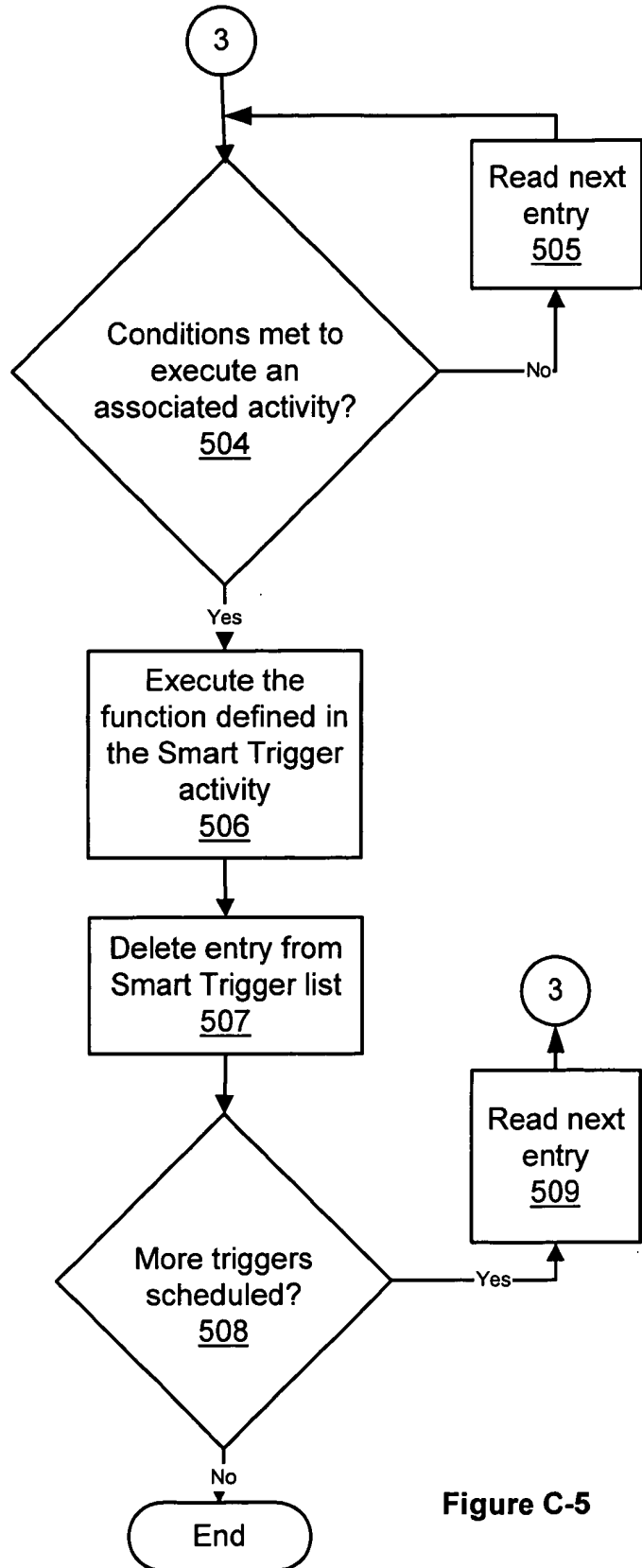
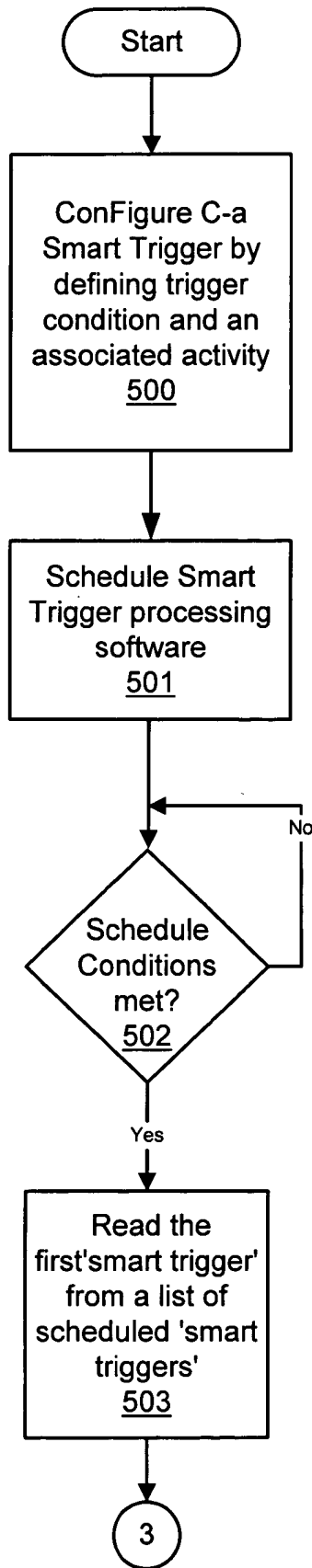


Figure C-5

Data Set Record Pointer <u>600</u>	Data Set Record Data Column 1 <u>610</u>	Data Set Record Data Column N <u>620</u>	List of Processing Tasks <u>630</u>
P1	R11	R1N	T1 TN
....
PN	RN1	RNN	T1 TN

Current Data Set Record Pointer <u>640</u>	Current Processing Task <u>650</u>	Next Processing Task <u>660</u>
P1	T3	T4
.....	T5	T6
PN	T(N-1)	TN

Figure C-6
PRIOR ART

002201" 5106360

Current Data Set Record Pointer <u>700</u>	Processing Task Number <u>710</u>
P2	T1
P5	T1
PN	T1

Current Data Set Record Pointer	Processing Task Number
P1	T2
P3	T2
PN	T2

Current Data Set Record Pointer	Processing Task Number
P7	T(N-1)
P11	T(N-1)
PN	T(N-1)

Current Data Set Record Pointer	Processing Task Number
P4	TN
P9	TN
PN	TN

Figure C-7

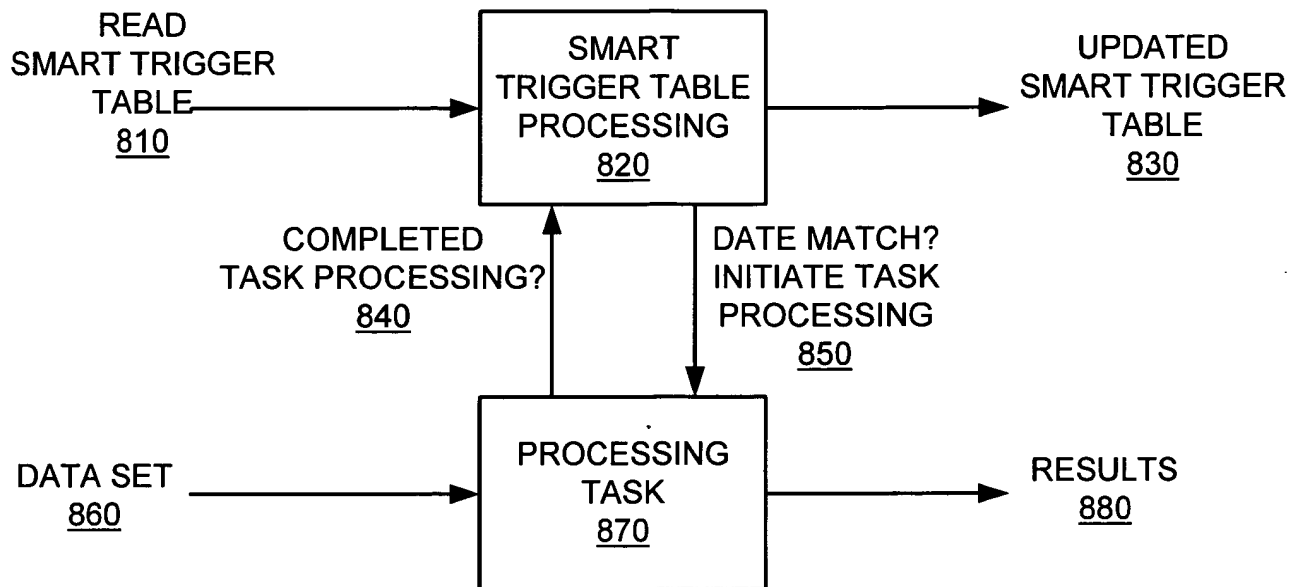


Figure C-8

002007-510636







Figure D- 2a



Prior Art

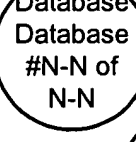


Figure D- 4

1. The first part of the report, which is the most important, is the **Executive Summary**. This is a brief, concise summary of the entire report, and it should be written in a clear, concise, and professional manner. It should be written in a way that is easy to read and understand, and it should be written in a way that is easy to read and understand.

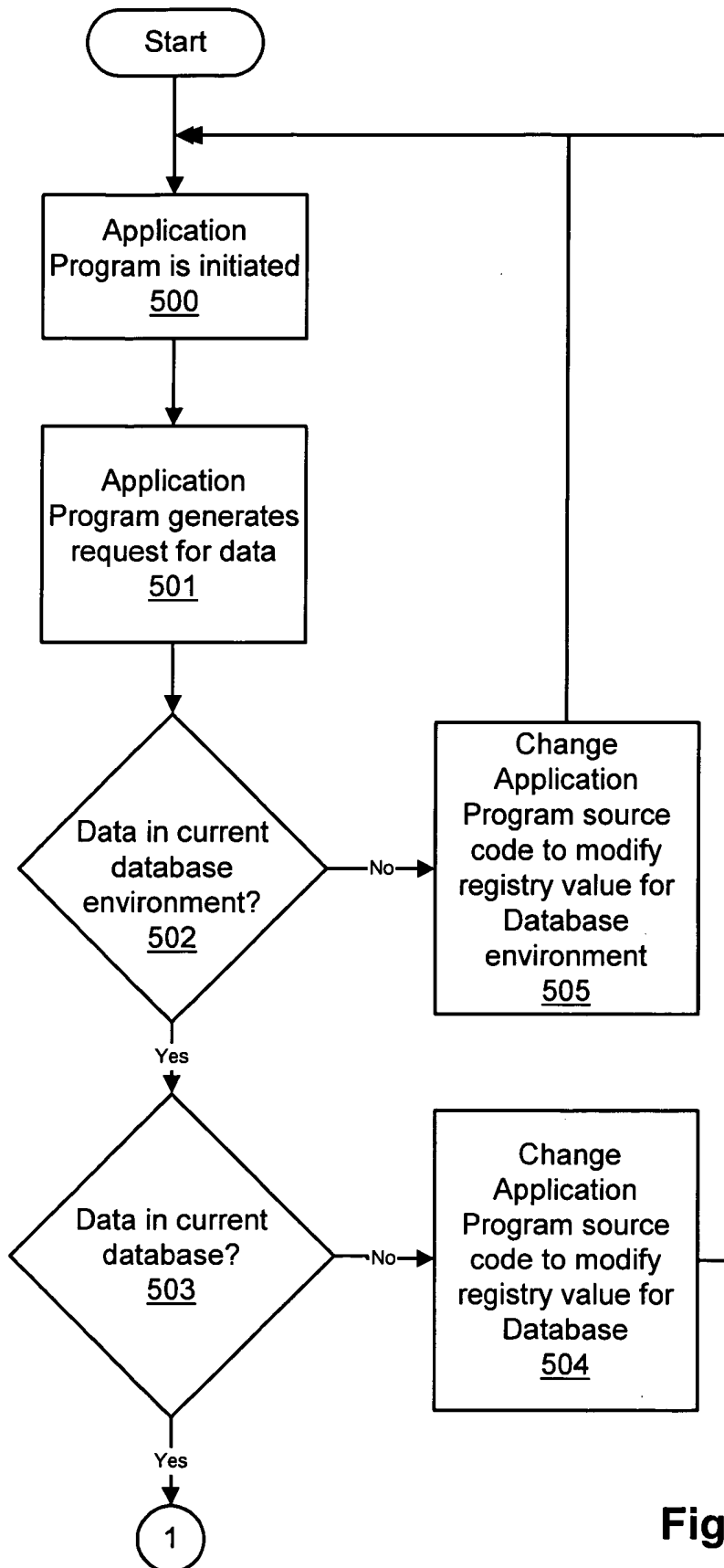


Figure D- 5

Prior Art

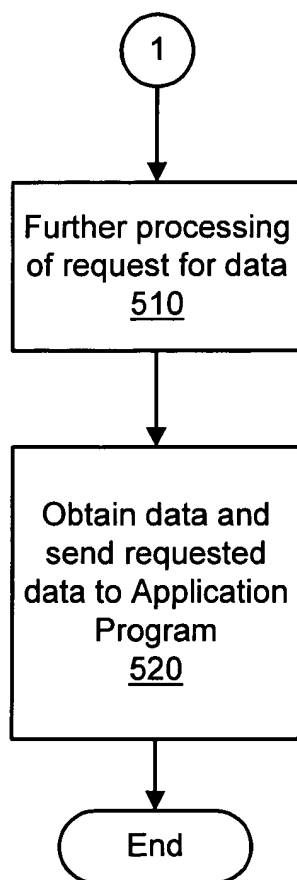


Figure D- 5a

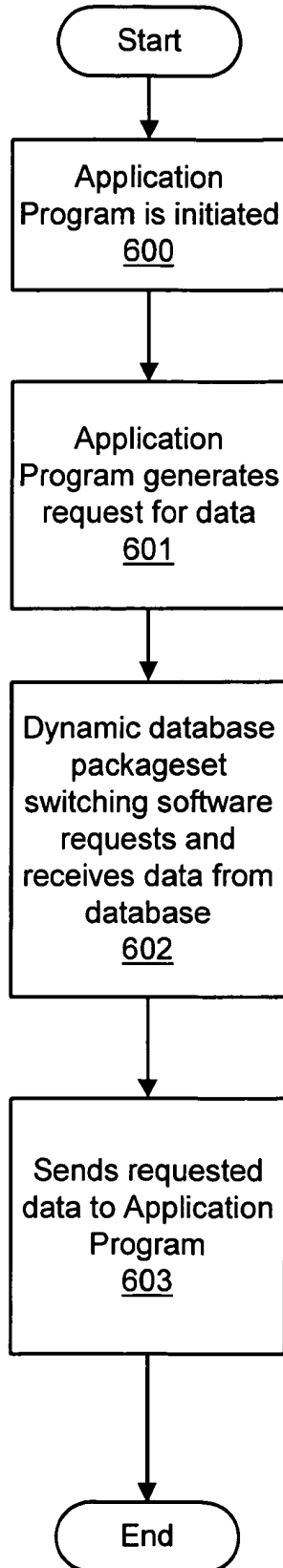
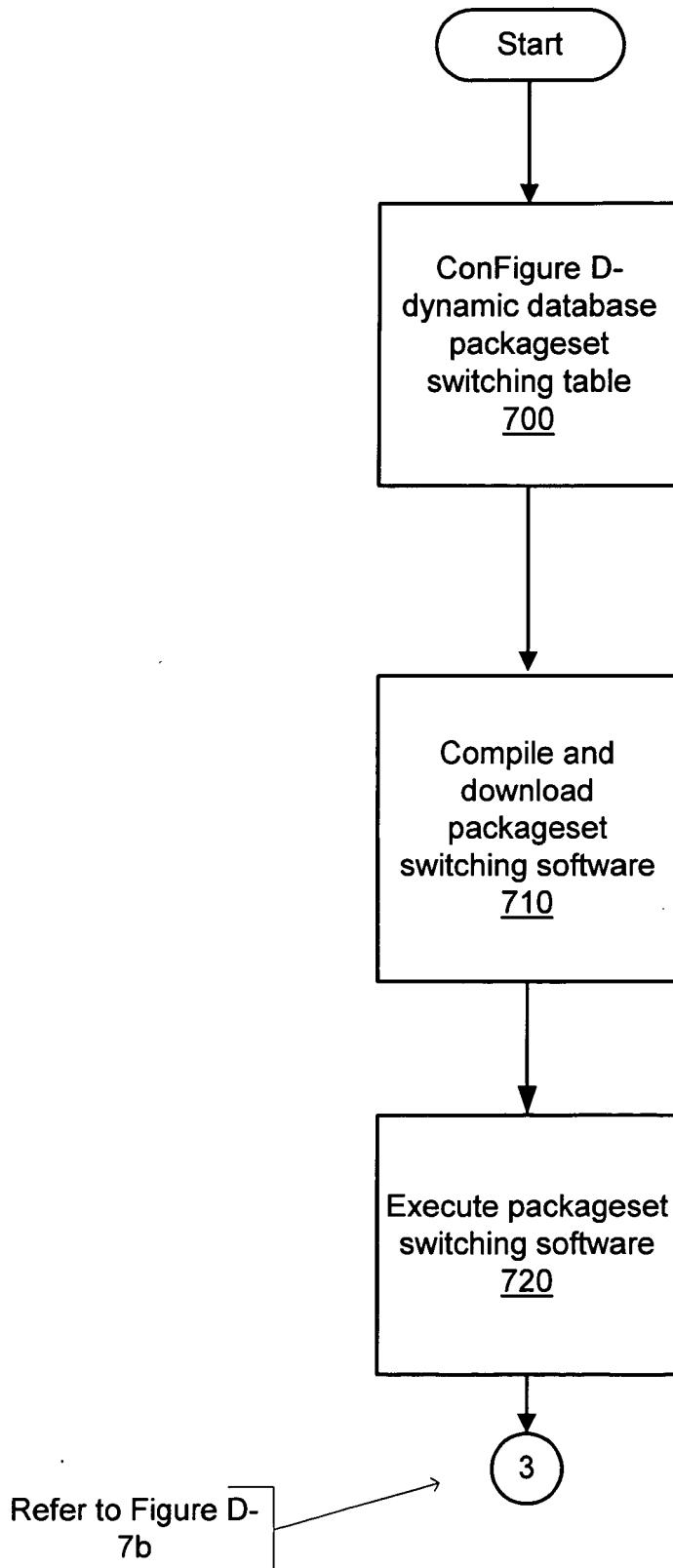


Figure D- 6



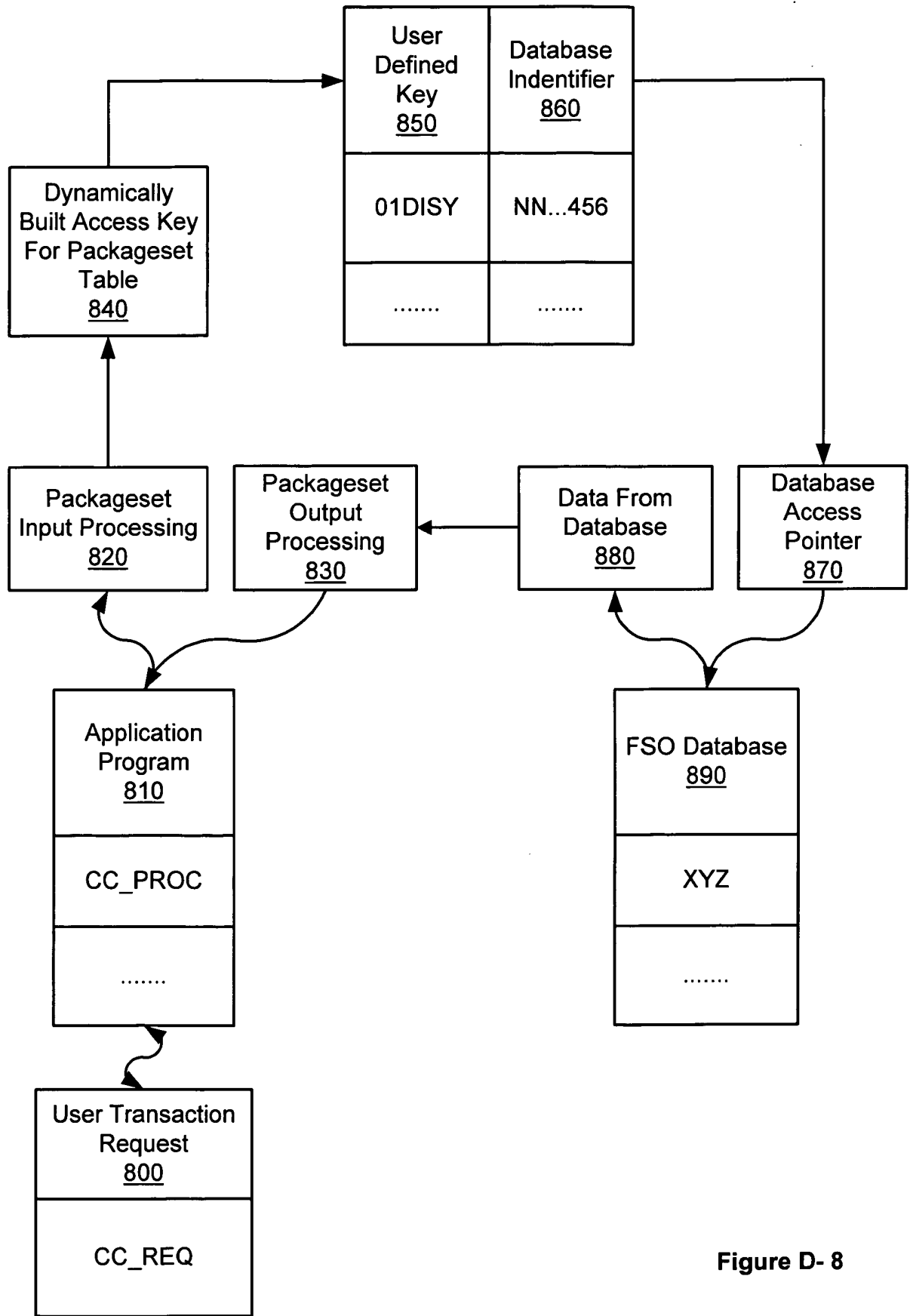
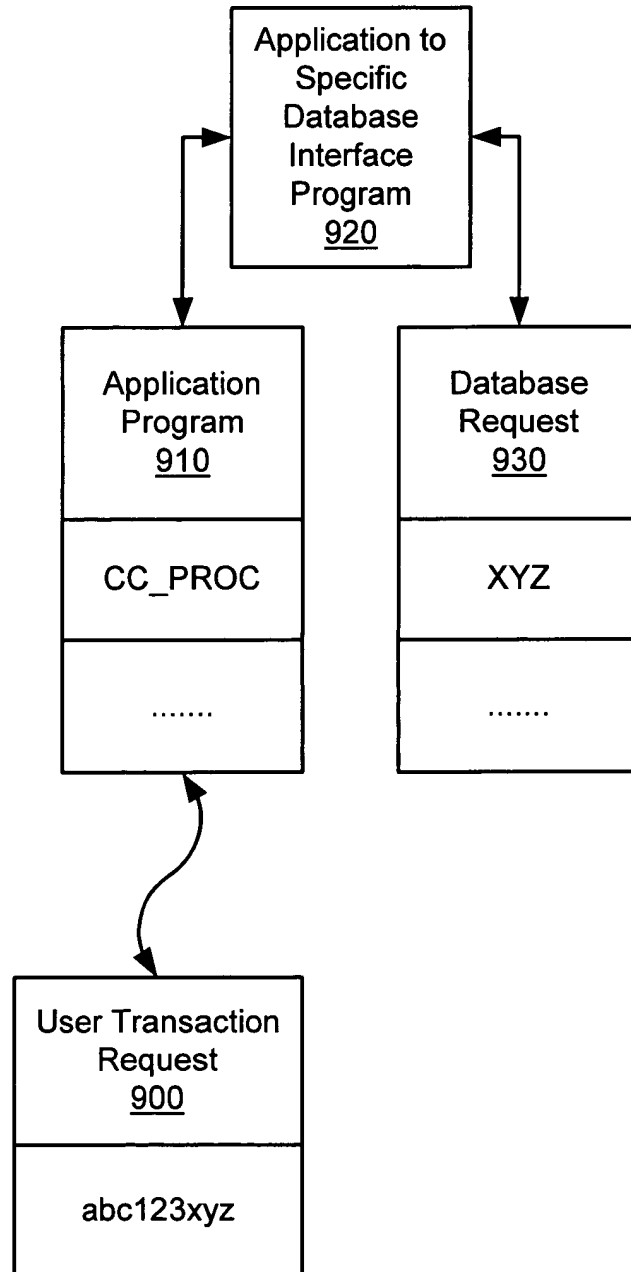


Figure D- 8



PRIOR ART

Figure D- 9

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122

124

120

<u>DICTIONARY ELEMENTS</u>	<u>USEABLE IN KEYS?</u>
A	NO
B	NO
C	NO
D	NO
E	NO
F	NO
G	NO
H	NO
I	NO
J	NO
K	NO
L	NO
M	NO
N	YES
O	YES
P	YES
Q	YES
R	YES
S	YES
T	YES
U	YES
V	YES
W	YES
X	YES
Y	YES
Z	YES

SECRET

Figure D- 10

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132

134

130

<u>AVAILABLE KEY ELEMENTS</u>	<u>USEABLE IN KEY?</u>
N	NO
O	NO
P	NO
Q	NO
R	NO
S	NO
T	NO
U	NO
V	YES
W	YES
X	YES
Y	YES
Z	YES

Figure D- 11

142

144

146

140

<u>AVAILABLE KEY ELEMENTS</u>	<u>USE AS KEY FIELD?</u>	<u>SEQUENCE</u>
V	NO	N/A
W	YES	2
X	YES	1
Y	NO	N/A
Z	YES	3

Figure D-
12

<u>KEY</u> <u>FIELD</u>	<u>FIELD</u> <u>SEQUENCE</u>	<u>ELEMENT</u> <u>NAME</u>	<u>FIELD</u> <u>LENGTH</u>	<u>FIELD</u> <u>TYPE</u>
X	1	COMPANY ID	2	NUMERIC
W	2	CREDIT CARD TYPE	3	CHARACTER
Z	3	ON US/NOT ON US	1	CHARACTER

Figure D- 13

ROW	KEY VALUES		PACKAGESET SWITCHING TABLE VALUES	
	<u>X</u>	<u>W</u>	<u>Z</u>	<u>DATABASE IDENTIFIER VALUE</u>
<u>1</u>	12	VIS	Y	NN1234567890123456
<u>2</u>	12	DIS	Y	NN1234567890123457
<u>3</u>	12	*	*	NN1234567890123458
<u>4</u>	12	*	Y	NN1234567890123459
<u>5</u>	14	VIS	N	NN1234567890123460
<u>6</u>	14	DIS	N	NN1234567890123461
<u>7</u>	*	*	*	NN1234567890123462

Figure D- 14

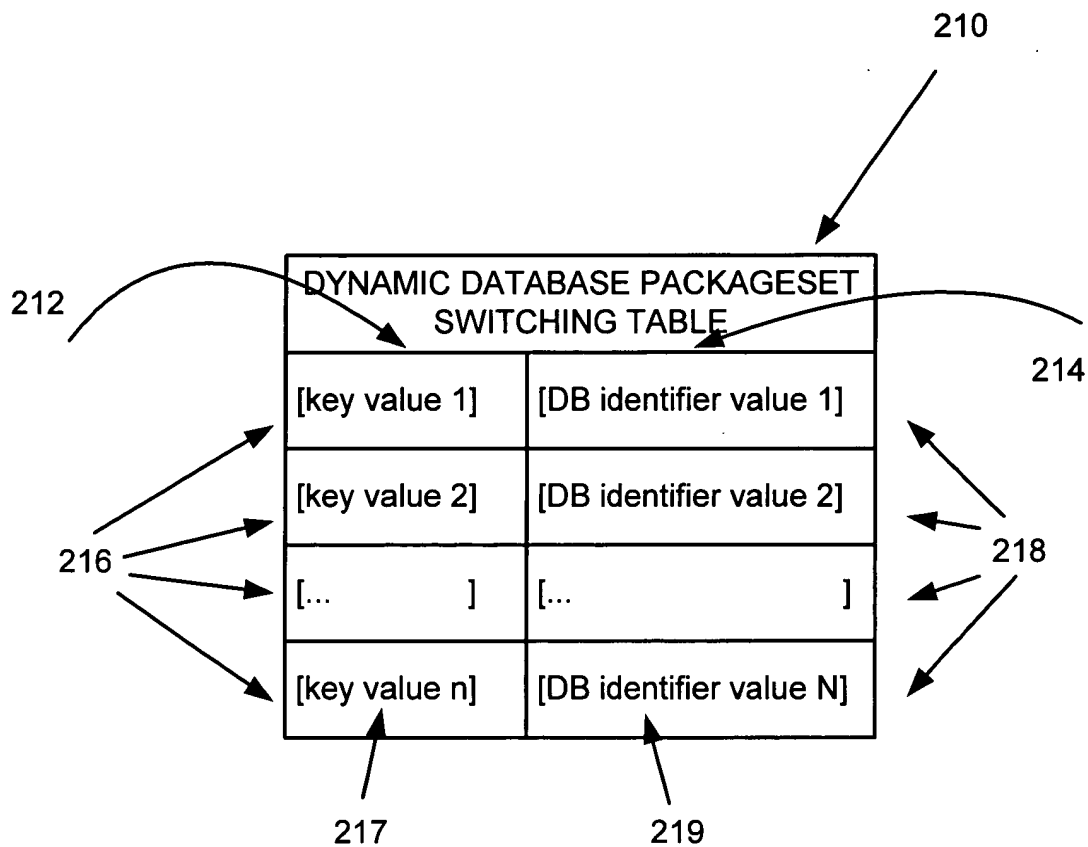


Figure D- 15

002015106360

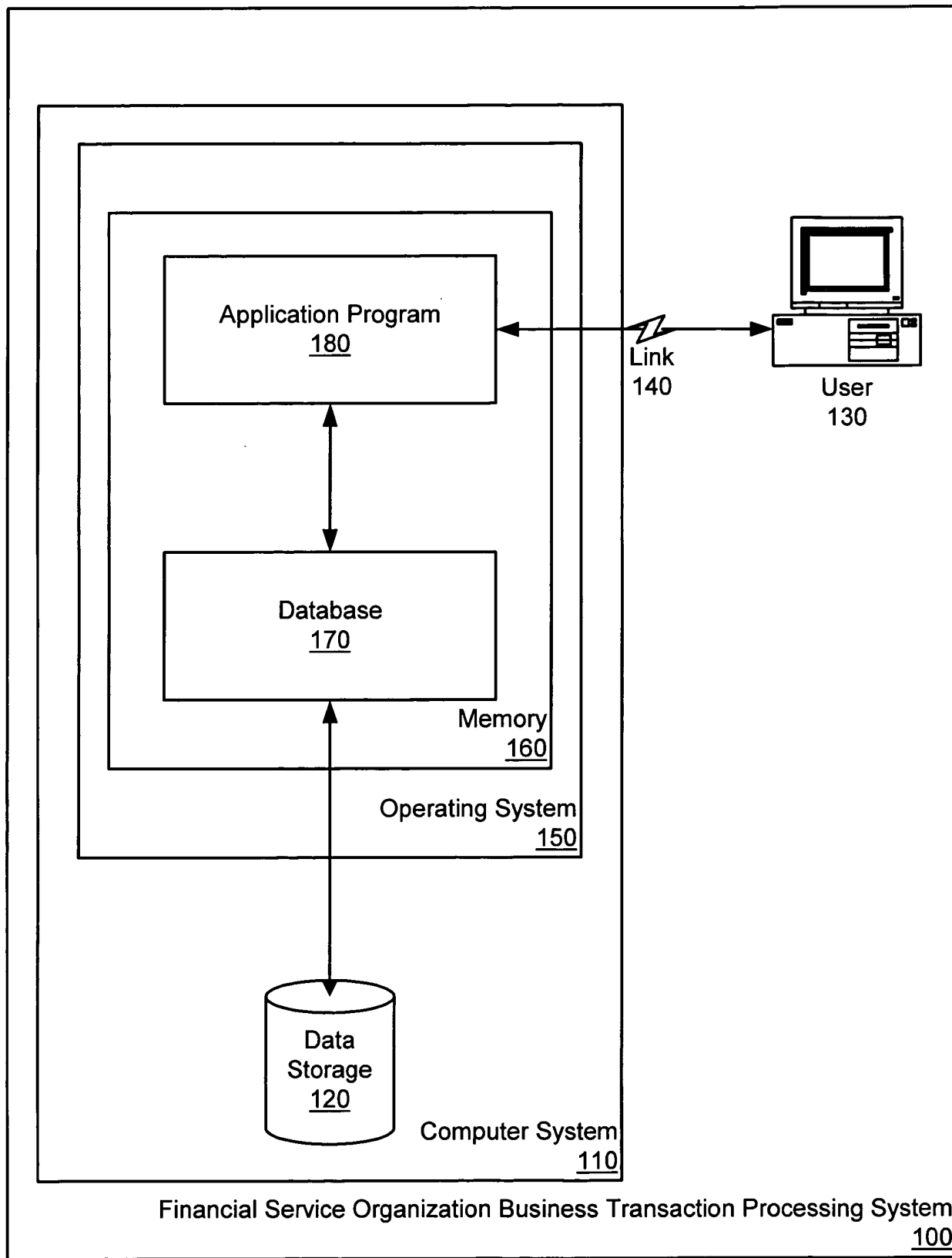
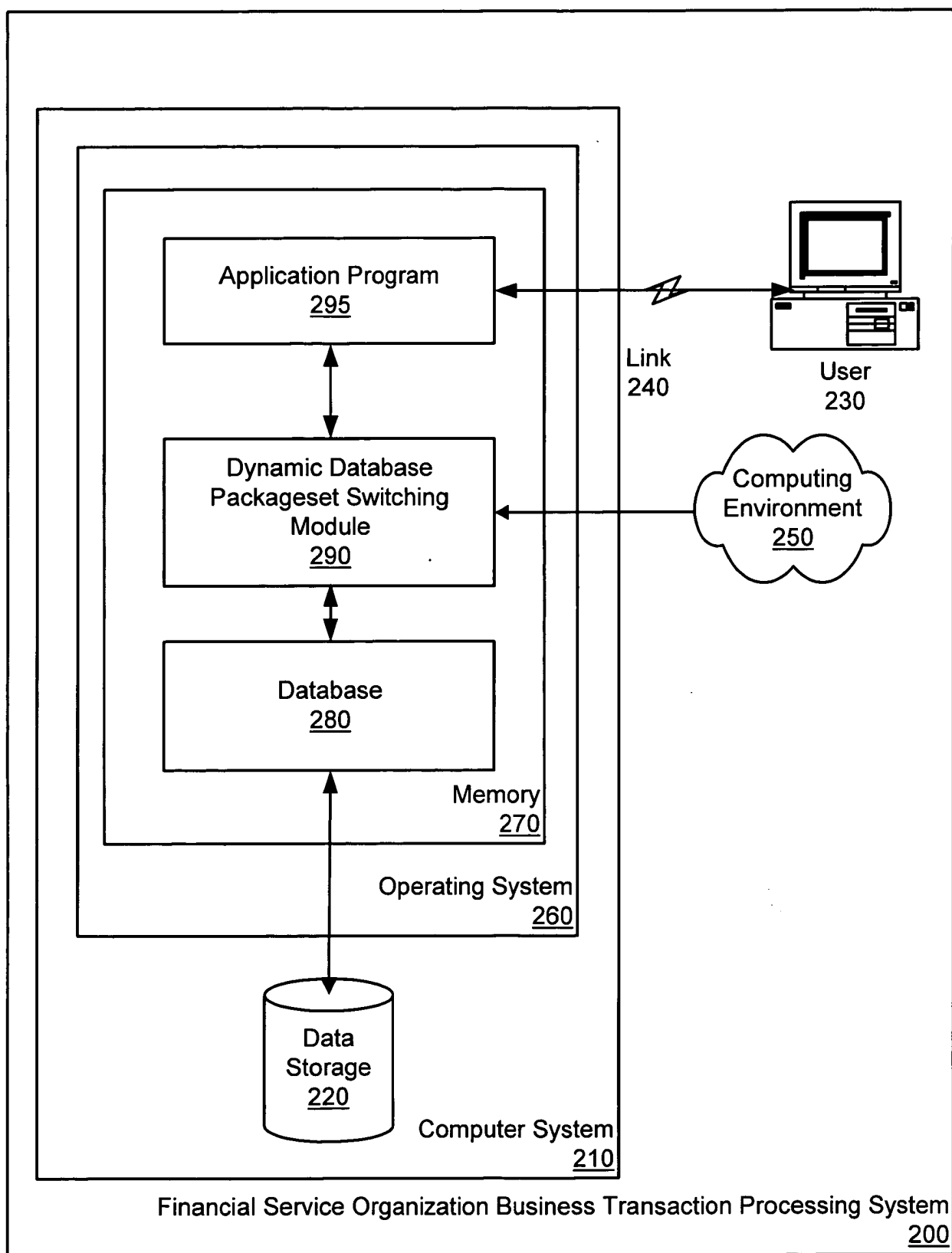


Figure E- 1

Prior Art



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00201506560

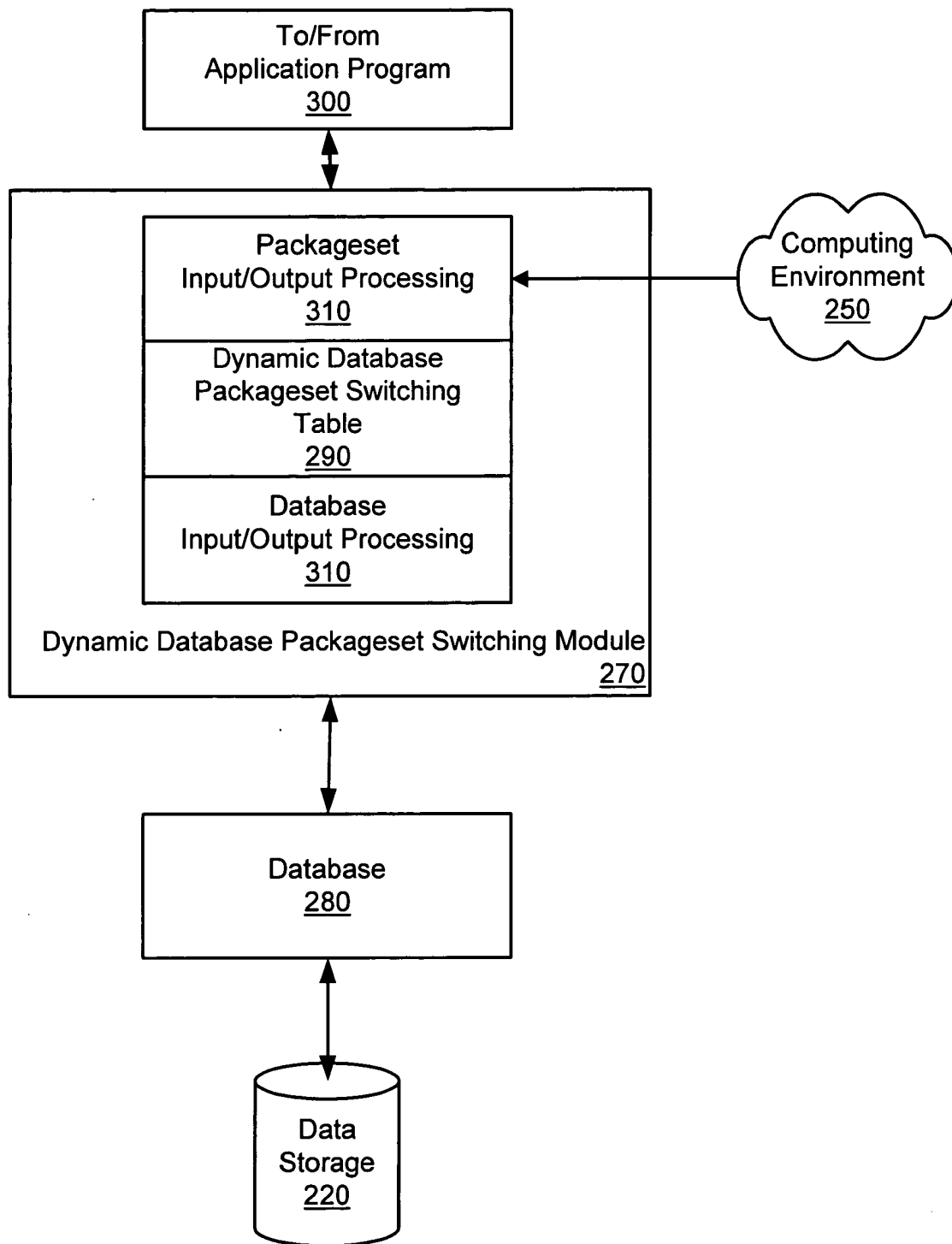
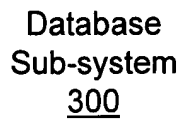


Figure E- 2a



Database
Database
#1-1 of
1-N
320

Database
Database
#1-2 of
1-N

Database
Database
#1-N of
1-N

Prior Art



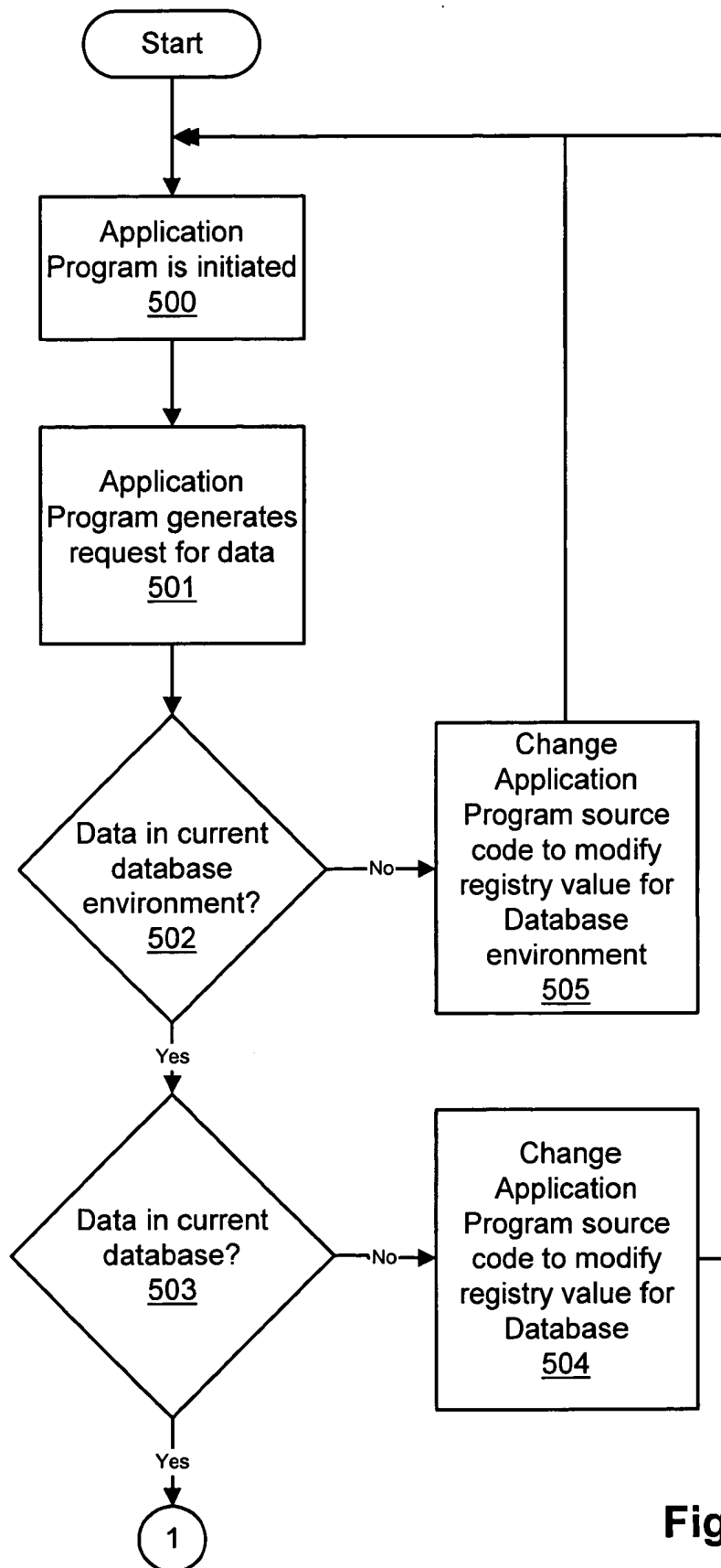
[illegible]

Figure E- 5

Prior Art

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002201 5106360

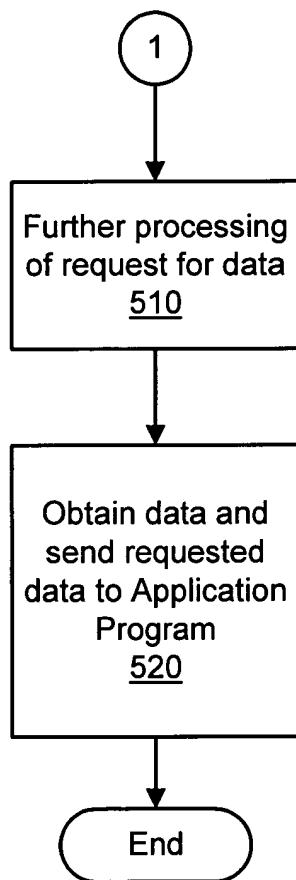
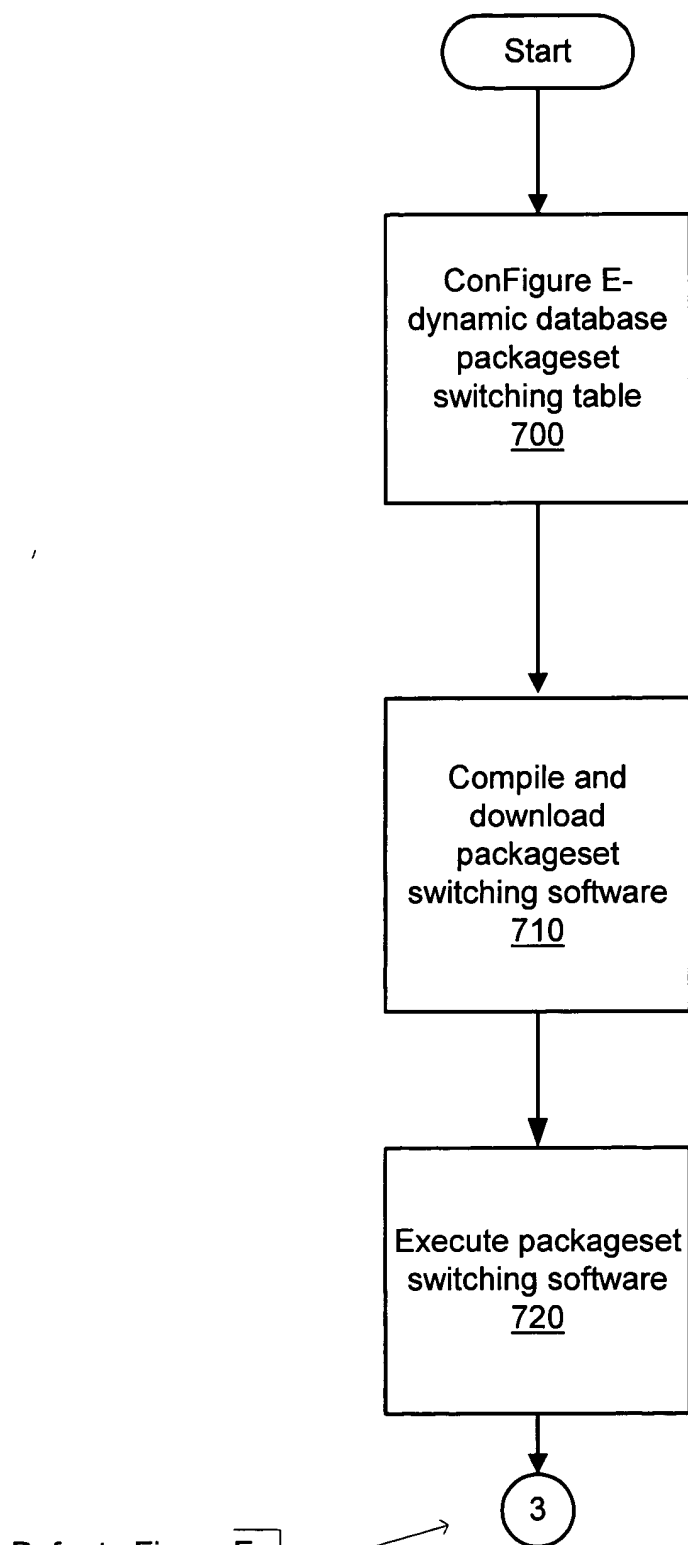


Figure E- 5a



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002207" 51066960



Refer to Figure E-7b

Figure E- 7a

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Detail of 602
Figure E- 6

From Figure E- 7a

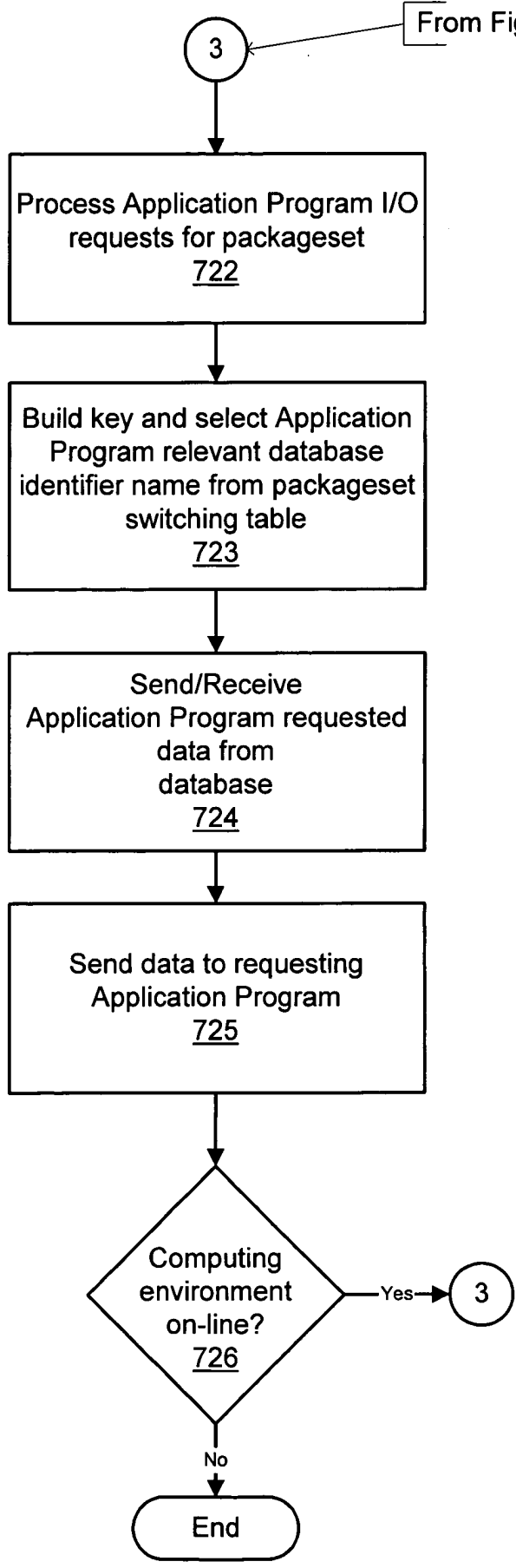
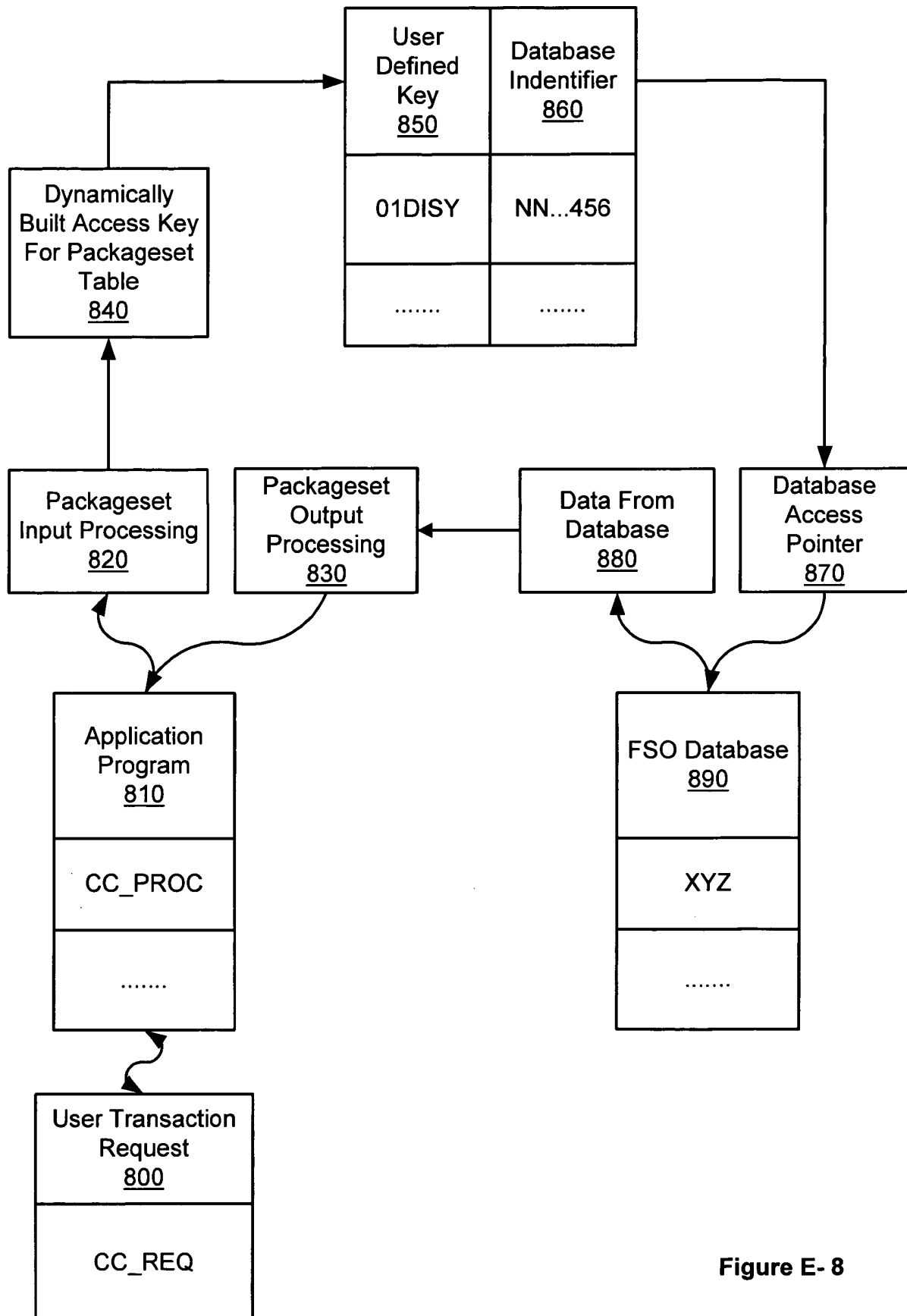


Figure E- 7b

00221" 5706360



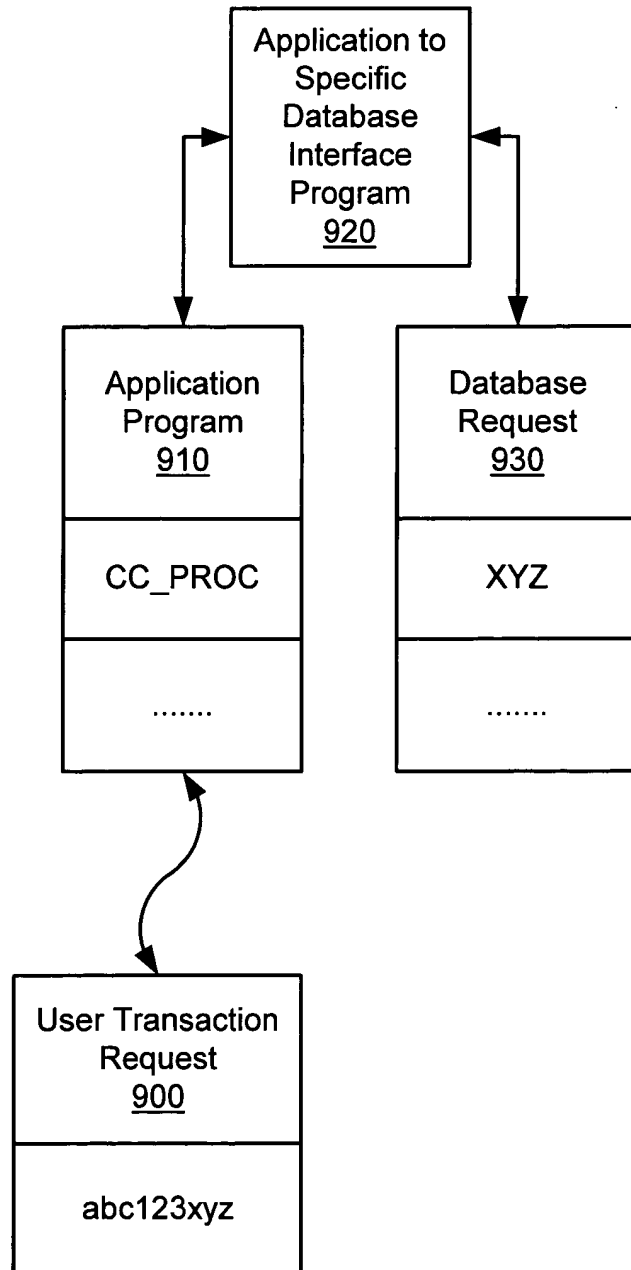


Figure E- 9

Figure E- 10

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130

<u>AVAILABLE KEY ELEMENTS</u>	<u>USEABLE IN KEY?</u>
N	NO
O	NO
P	NO
Q	NO
R	NO
S	NO
T	NO
U	NO
V	YES
W	YES
X	YES
Y	YES
Z	YES

Figure E- 11

142

144

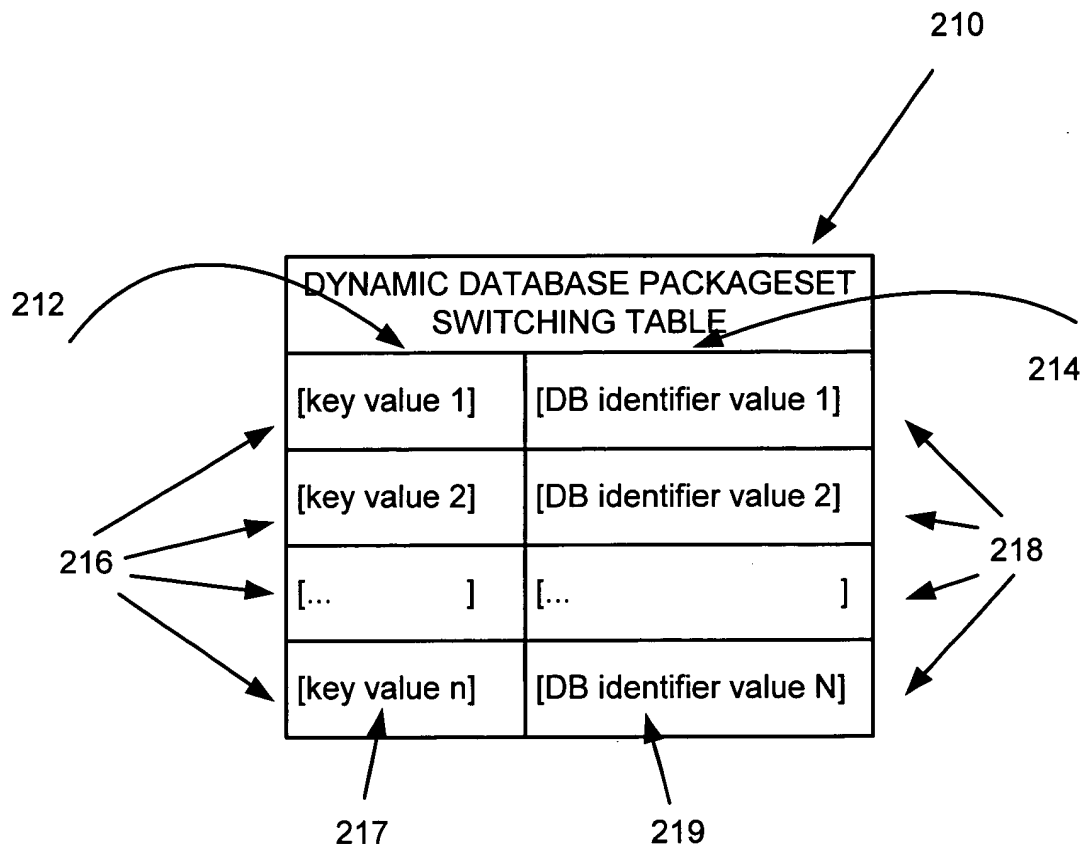
146

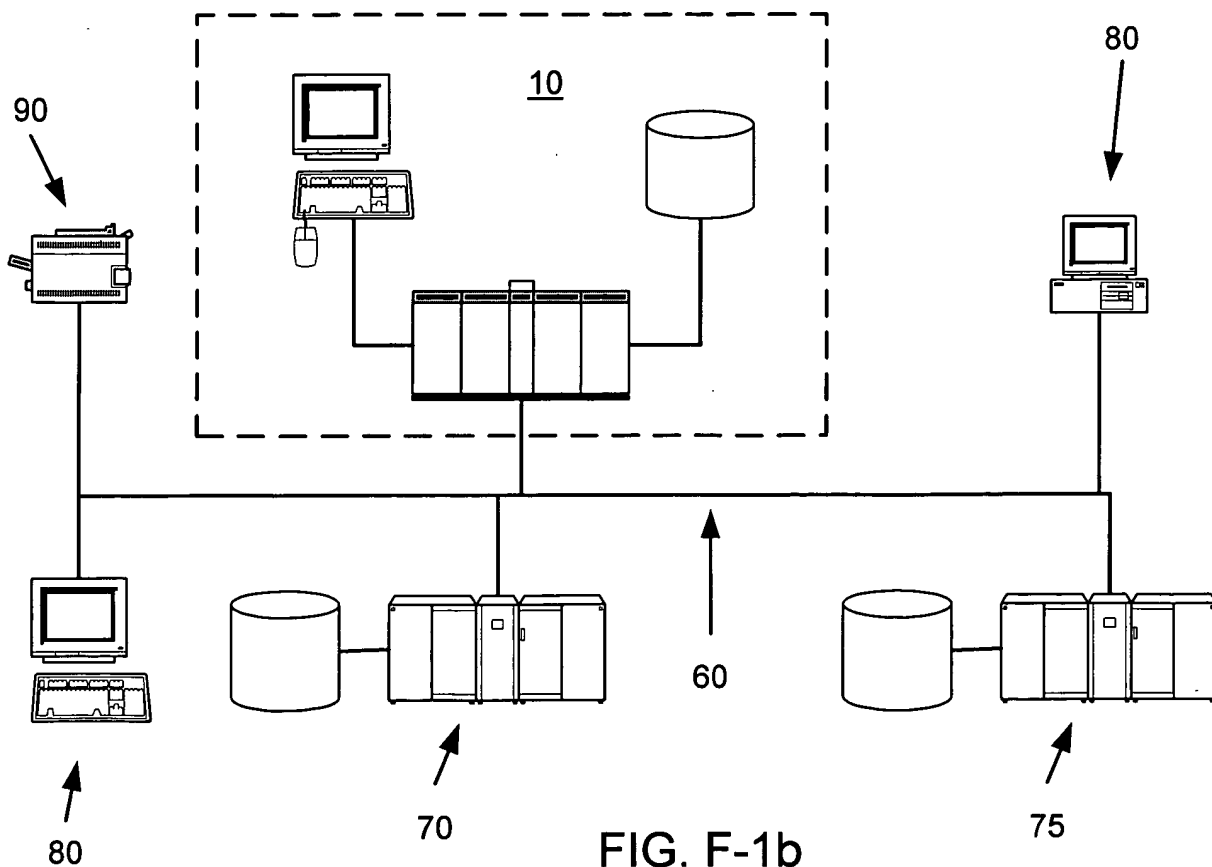
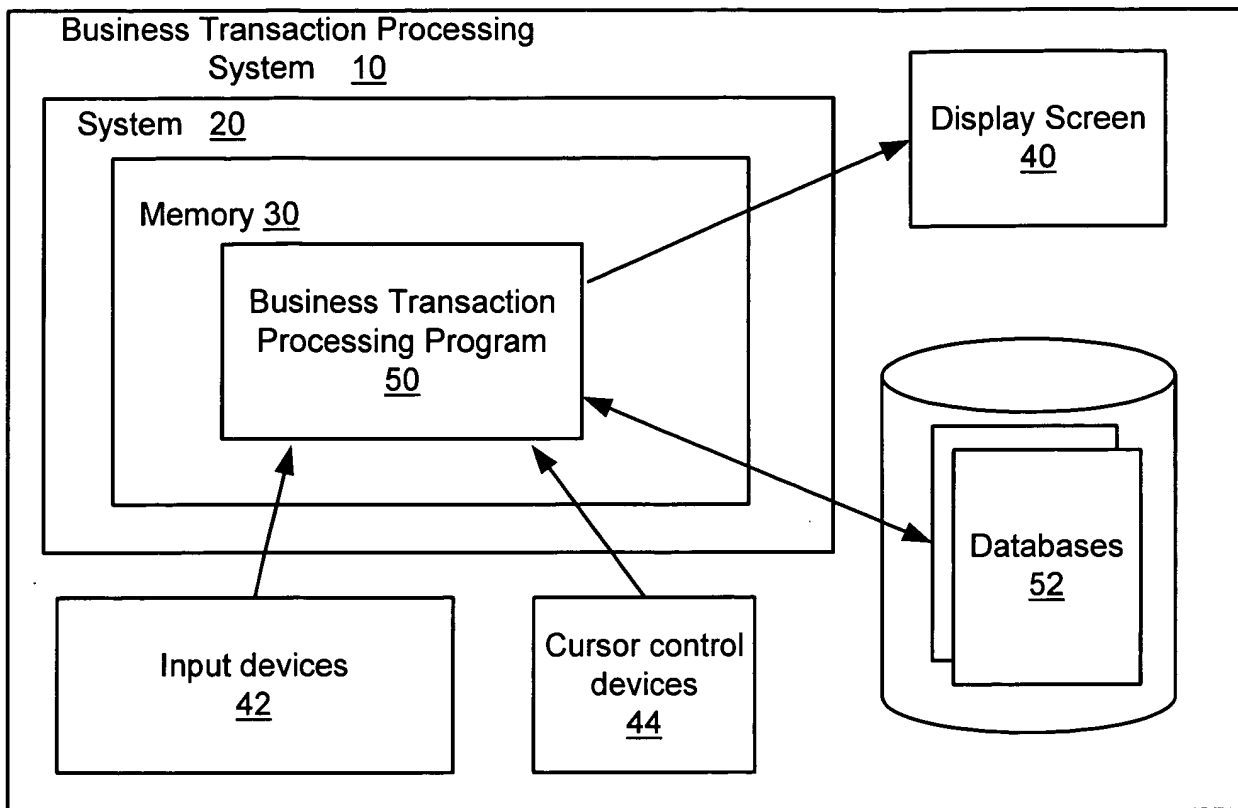
140

<u>AVAILABLE KEY ELEMENTS</u>	<u>USE AS KEY FIELD?</u>	<u>SEQUENCE</u>
V	NO	N/A
W	YES	2
X	YES	1
Y	NO	N/A
Z	YES	3

Figure E-
12

002201 54006360





SECRET

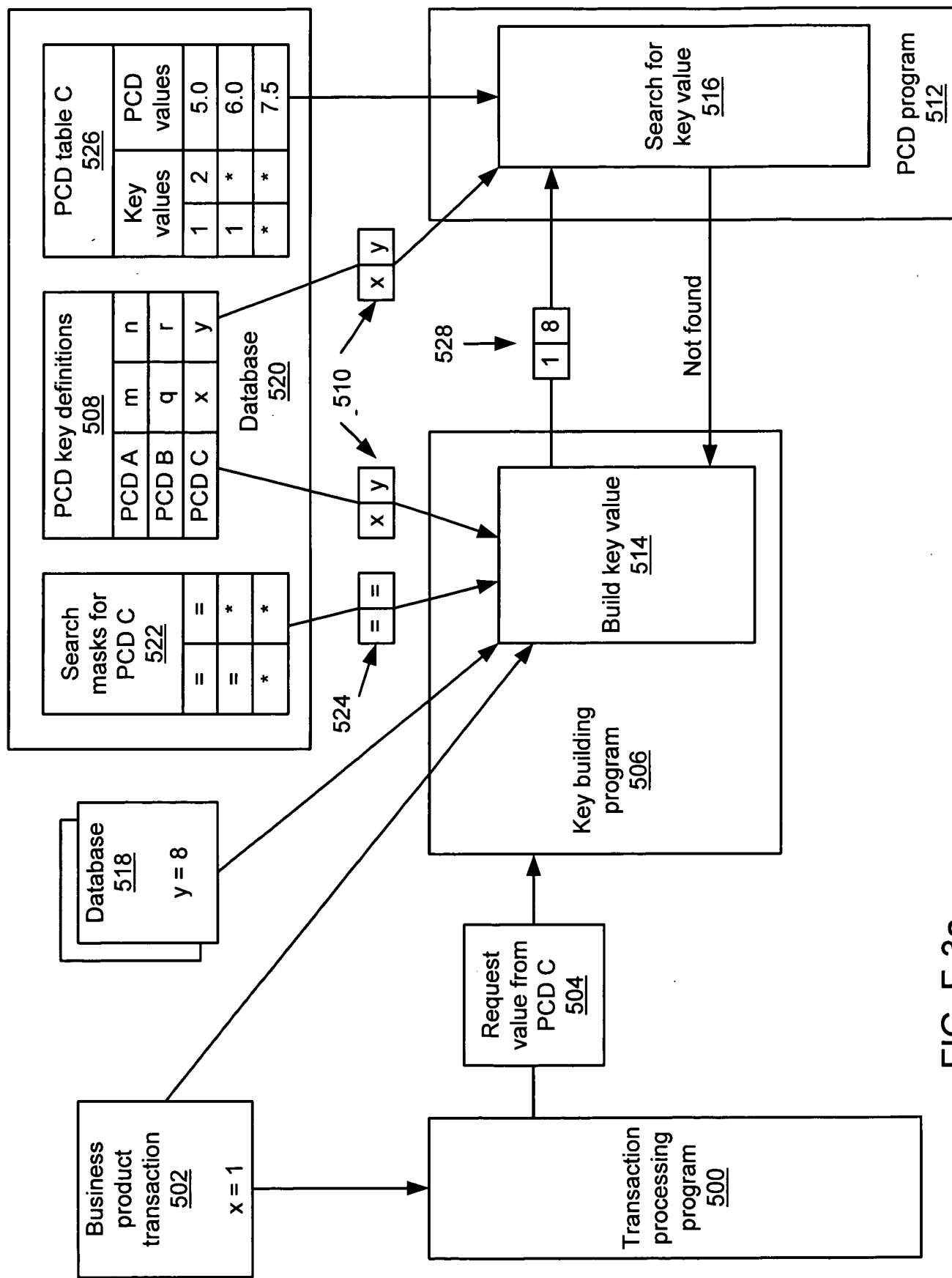


FIG. F-3a

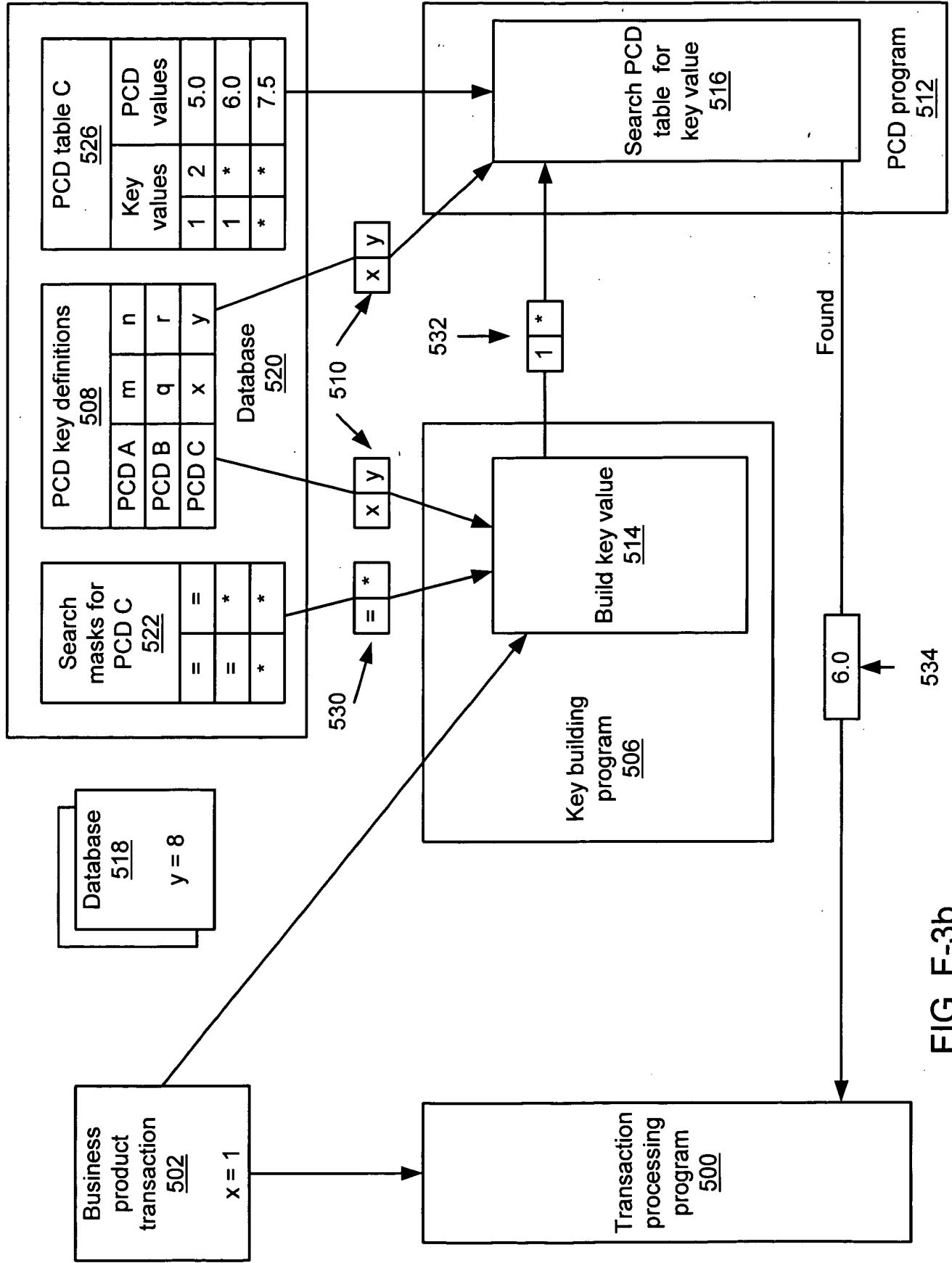


FIG. F-3b

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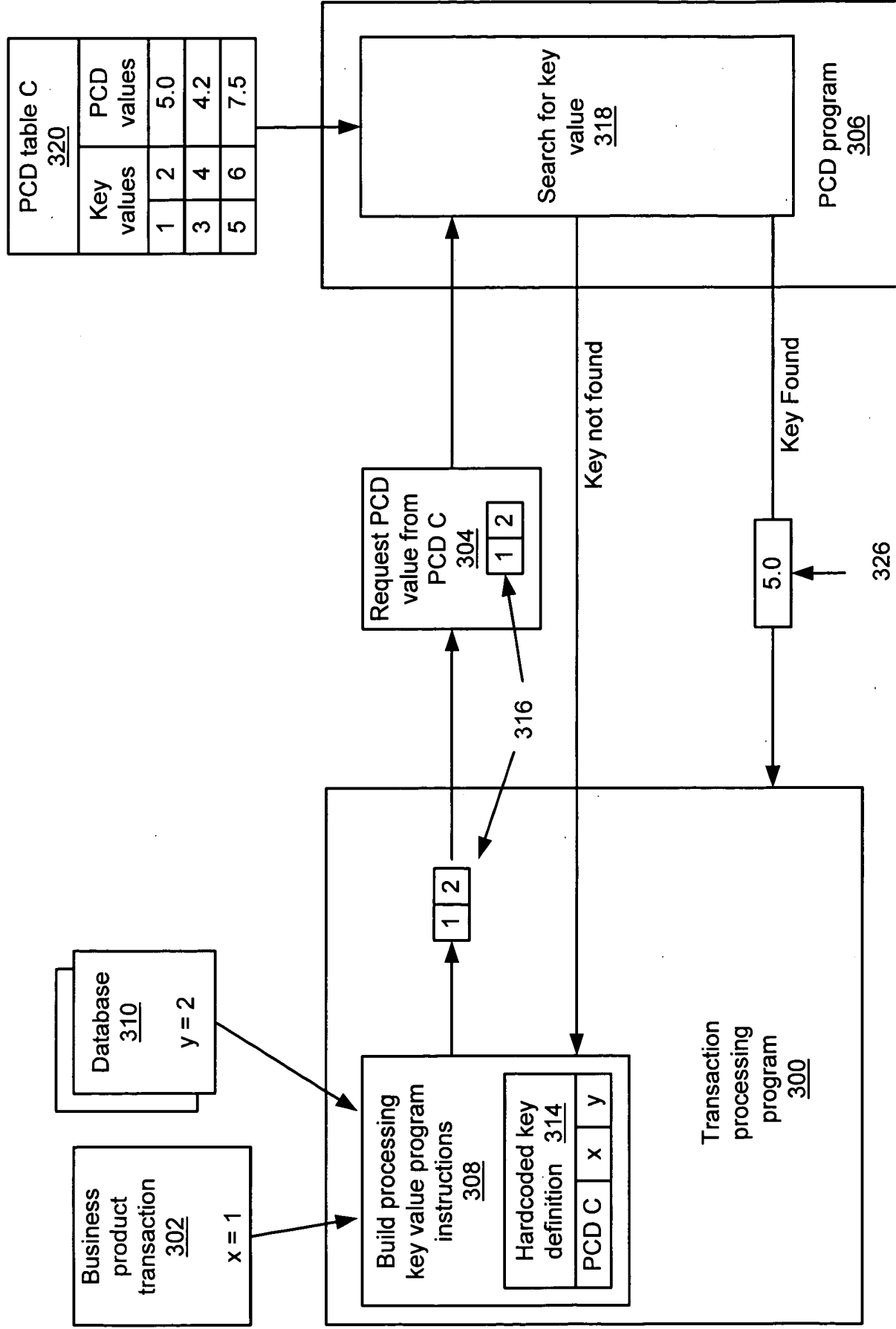


FIG. F-2 - Prior Art

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<u>KEY ELEMENT</u>	<u>KEY ELEMENT SEQUENCE</u>	<u>ELEMENT NAME</u>	<u>FIELD LENGTH</u>	<u>DATA TYPE</u>
X	1	COMPANY ID	2	NUMERIC
W	2	CREDIT CARD TYPE	3	CHARACTER
Z	3	ON US/NOT ON US	1	CHARACTER

FIG. F-4

<u>ROW</u>	<u>KEY VALUES</u>			<u>PCD VALUES</u>
	<u>X</u>	<u>W</u>	<u>Z</u>	<u>TRANSACTION CHARGE</u>
1	12	VIS	Y	10
2	12	DIS	Y	8
3	12	*	*	12
4	12	*	Y	13
5	14	VIS	N	12
6	14	DIS	N	11
7	*	*	*	14

FIG. F-5

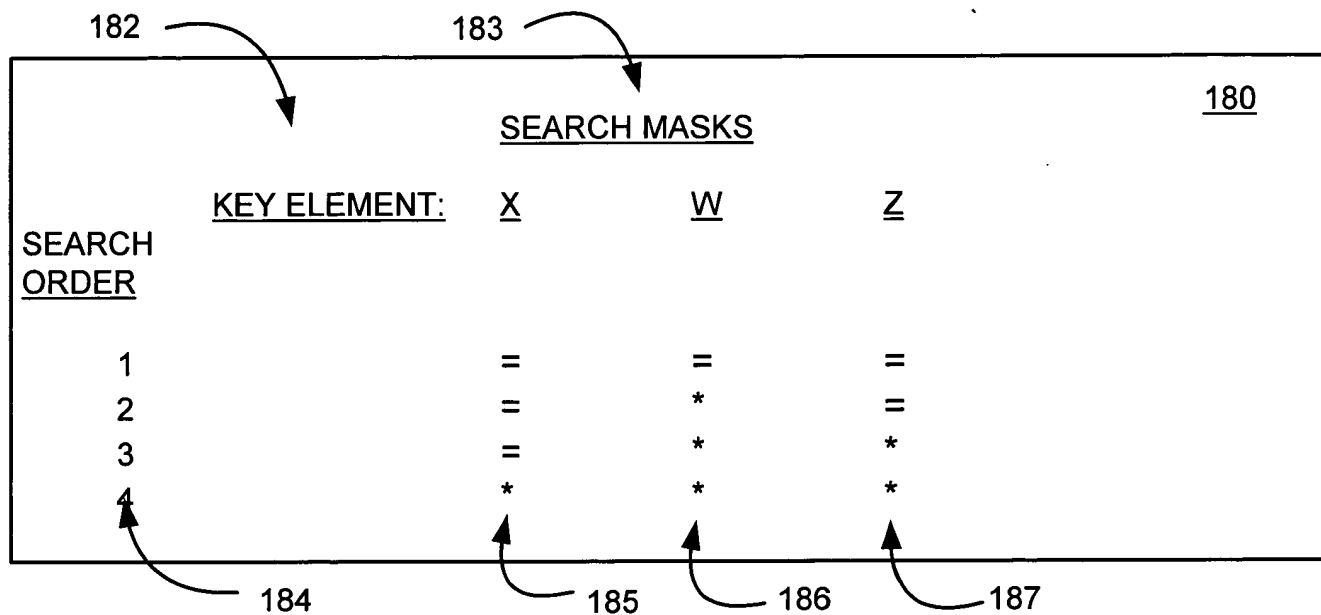


FIG. F-
6

200

202

204

PCD 1	User-defined key definition 1
PCD 2	User-defined key definition 2
PCD
PCD n	User-defined key definition n

FIG. F-7

205

206

208

PCD 1	Search mask table 1
PCD 2	Search mask table 2
PCD
PCD n	Search mask table n

FIG. F-8

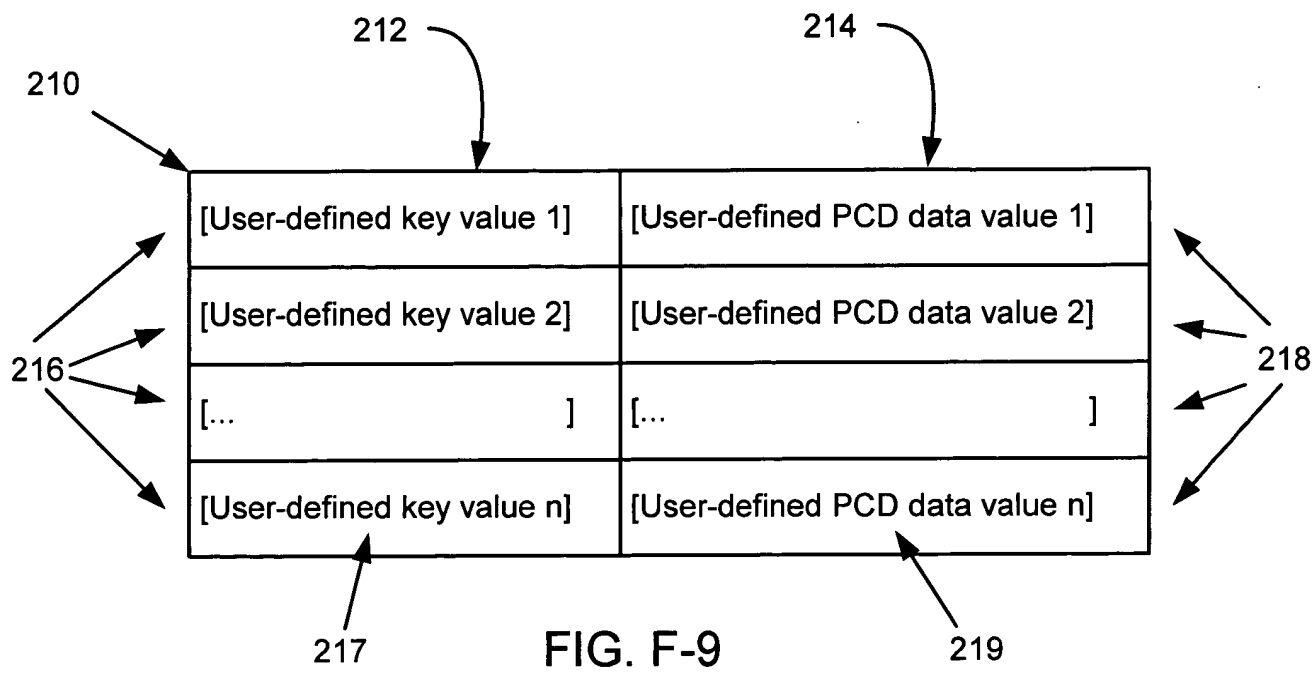


FIG. F-9

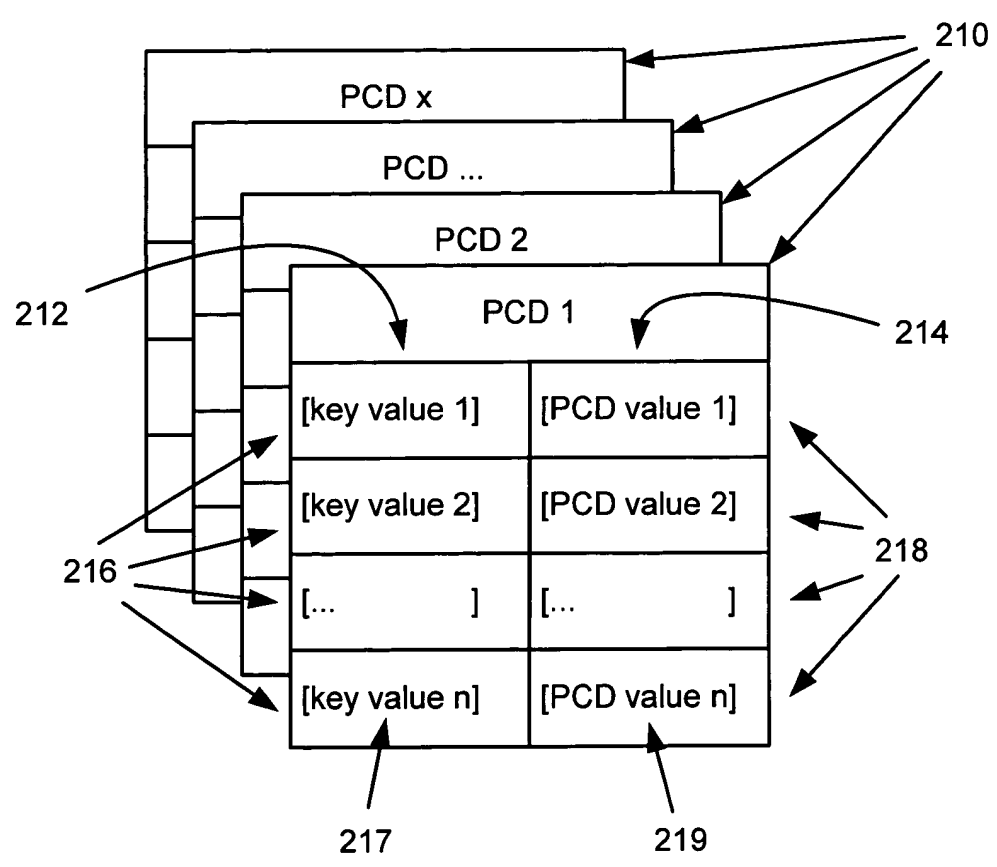


FIG. F-10

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KEY ELEMENT:	PROCESSING KEY VALUES			PCD TABLE ROW	TRANSACTION CHARGE
	<u>X</u>	<u>W</u>	<u>Z</u>		
SEARCH 1:	12	DIS	Y	2	8
SEARCH 2:	12	MSC	Y	-	-
	12	*	Y	4	13
SEARCH 3:	12	MSC	N	-	-
	12	*	N	-	-
	12	*	*	3	12
SEARCH 4:	14	MSC	N	-	-
	14	*	N	-	-
	14	*	*	-	-
	*	*	*	7	14

FIG. F-
11

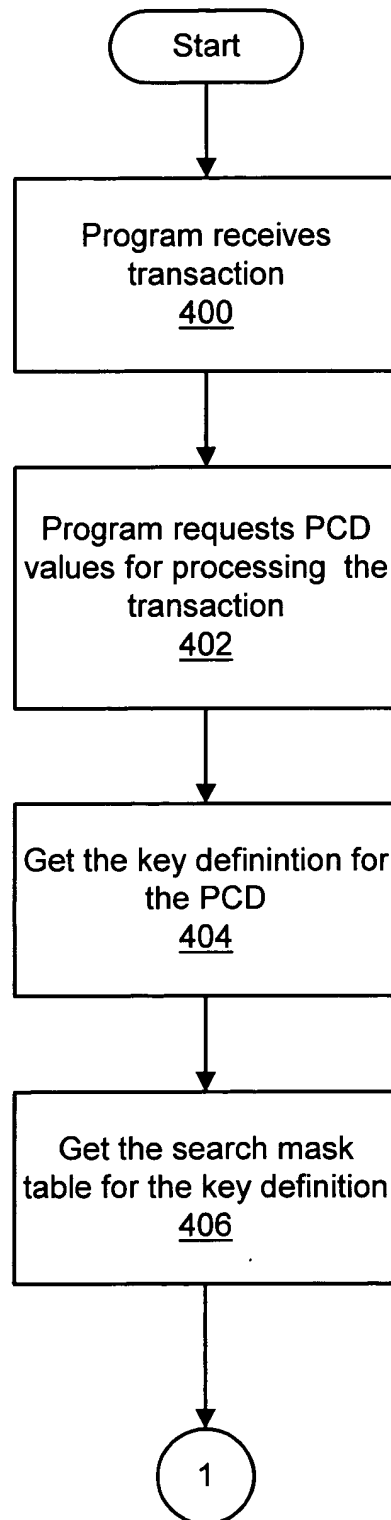


FIG. F-12a

FIG. F-12b

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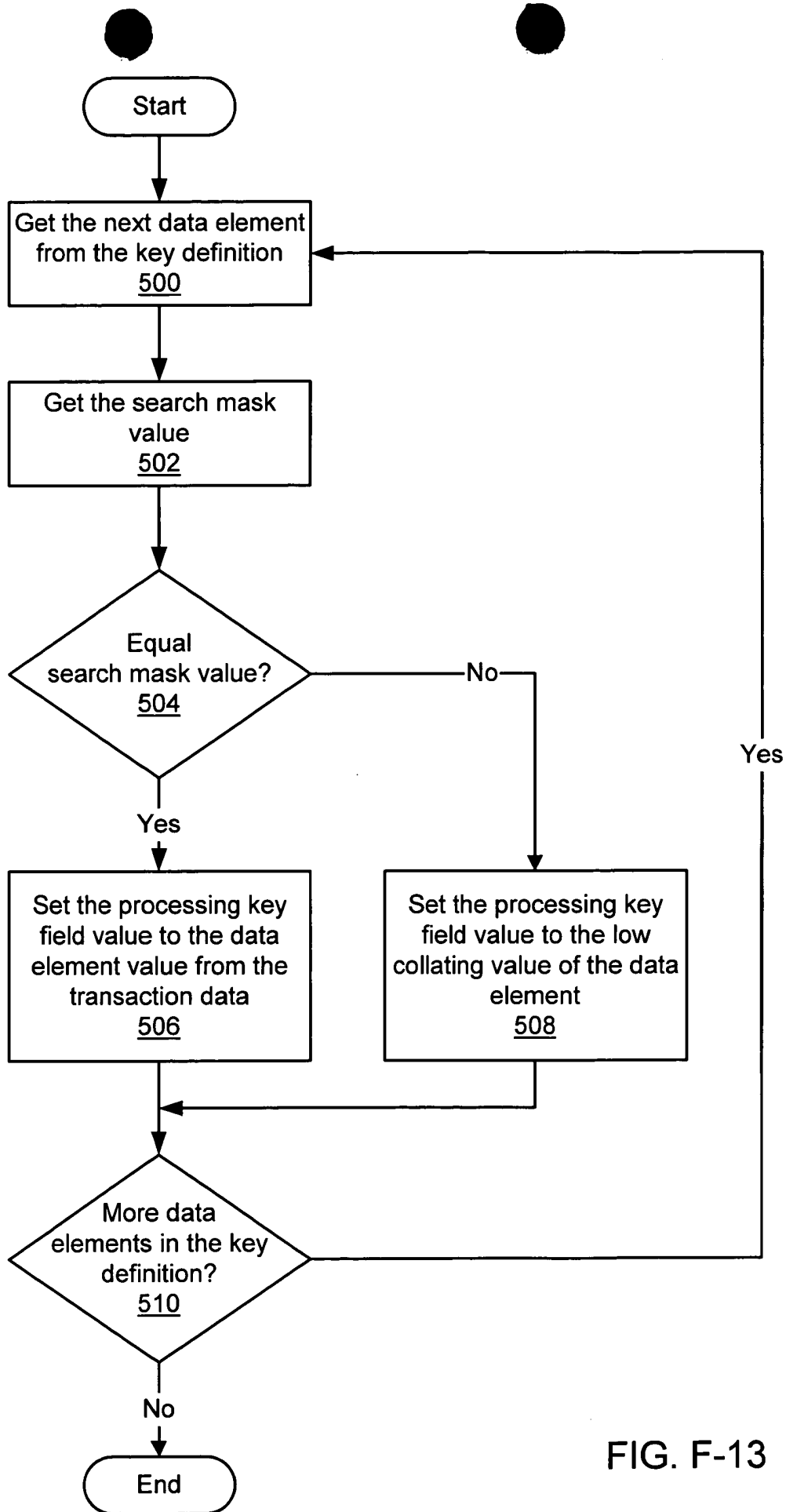


FIG. F-13

500 502 504 506 508 510

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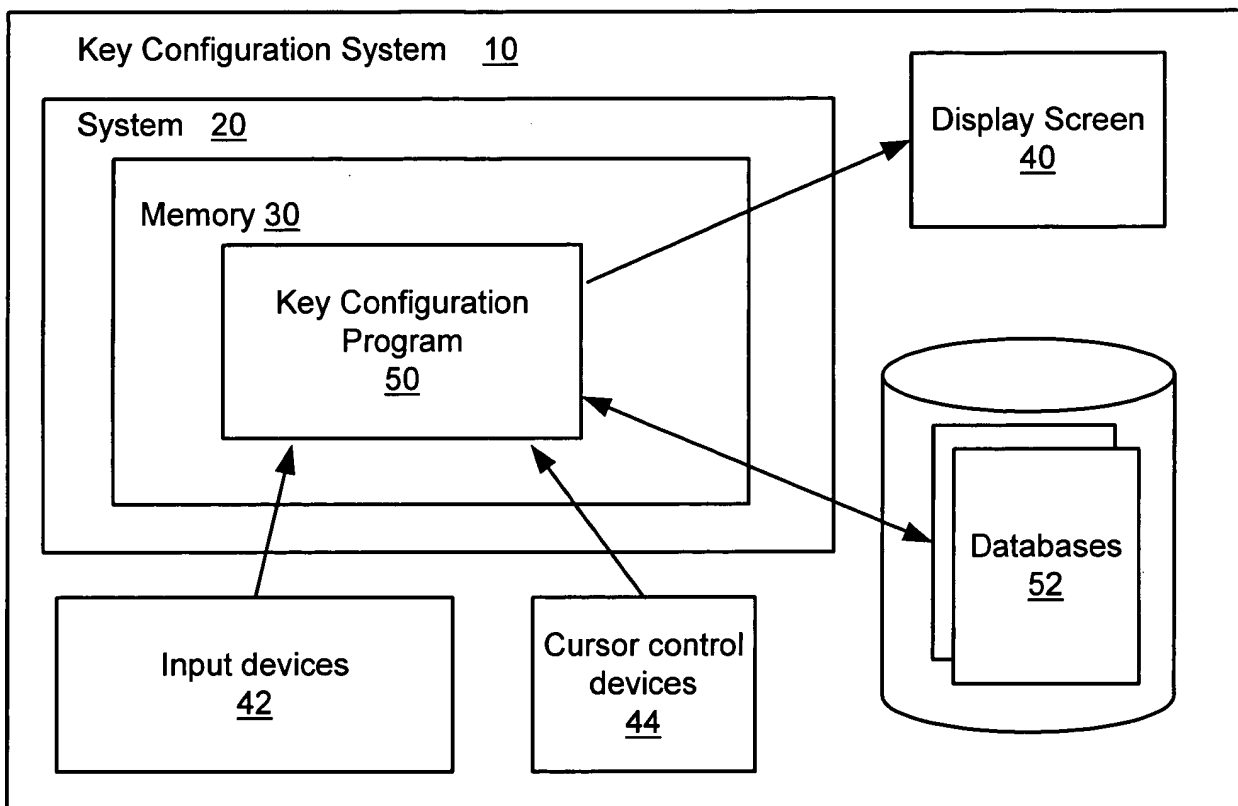


FIG. G-1

002207" 51066960

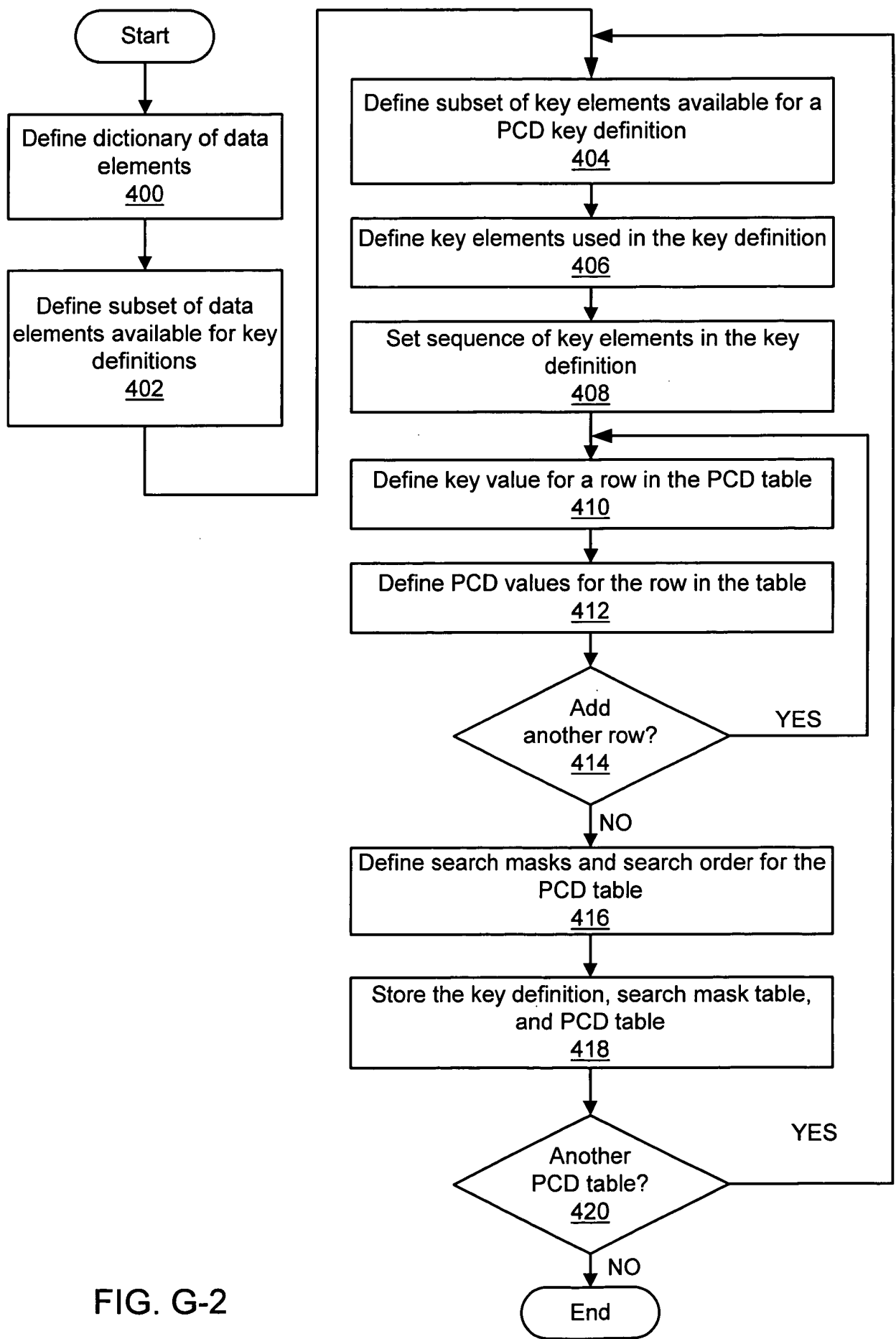
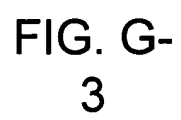


FIG. G-2

[illegible]

122																																																																																																																																																																					</
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FIG. G-4

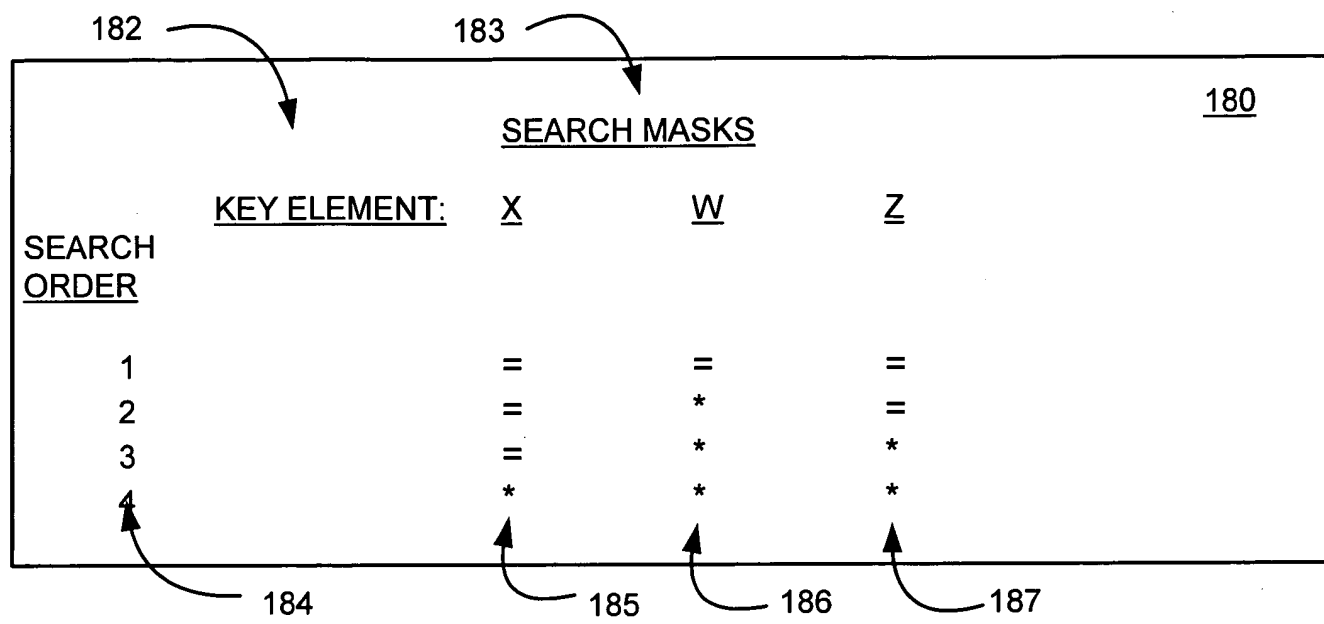


FIG. G-
9

002201 54066360

[illegible]FIG. G-10FIG. G-11

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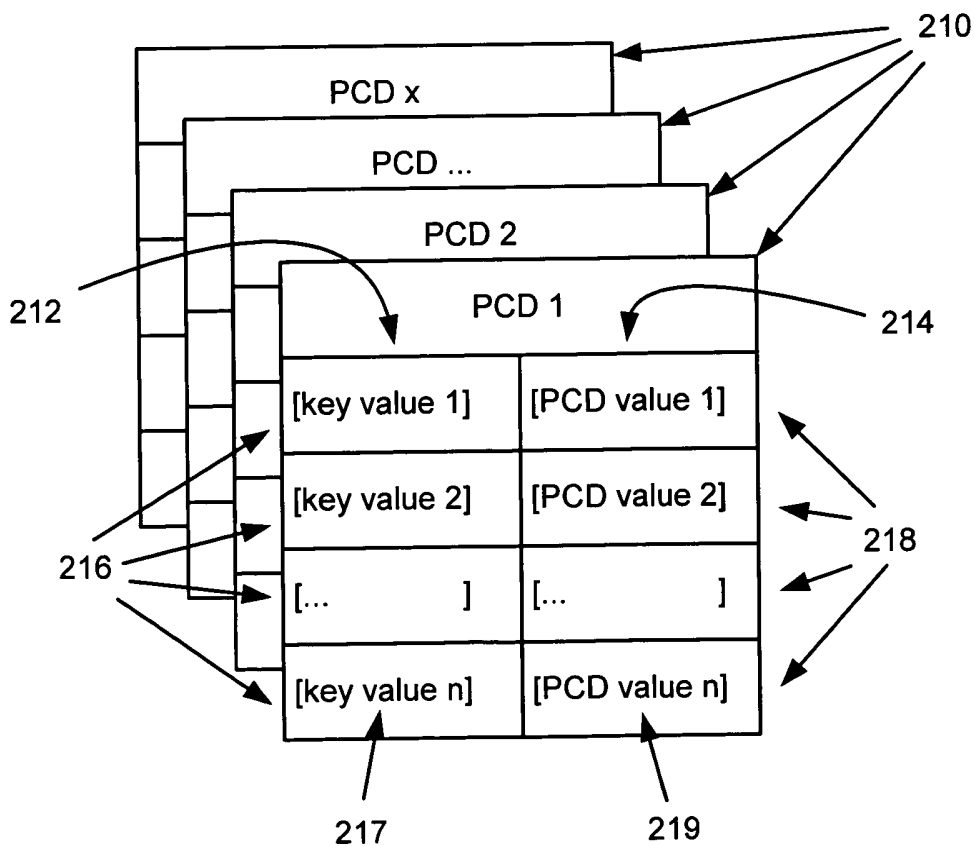
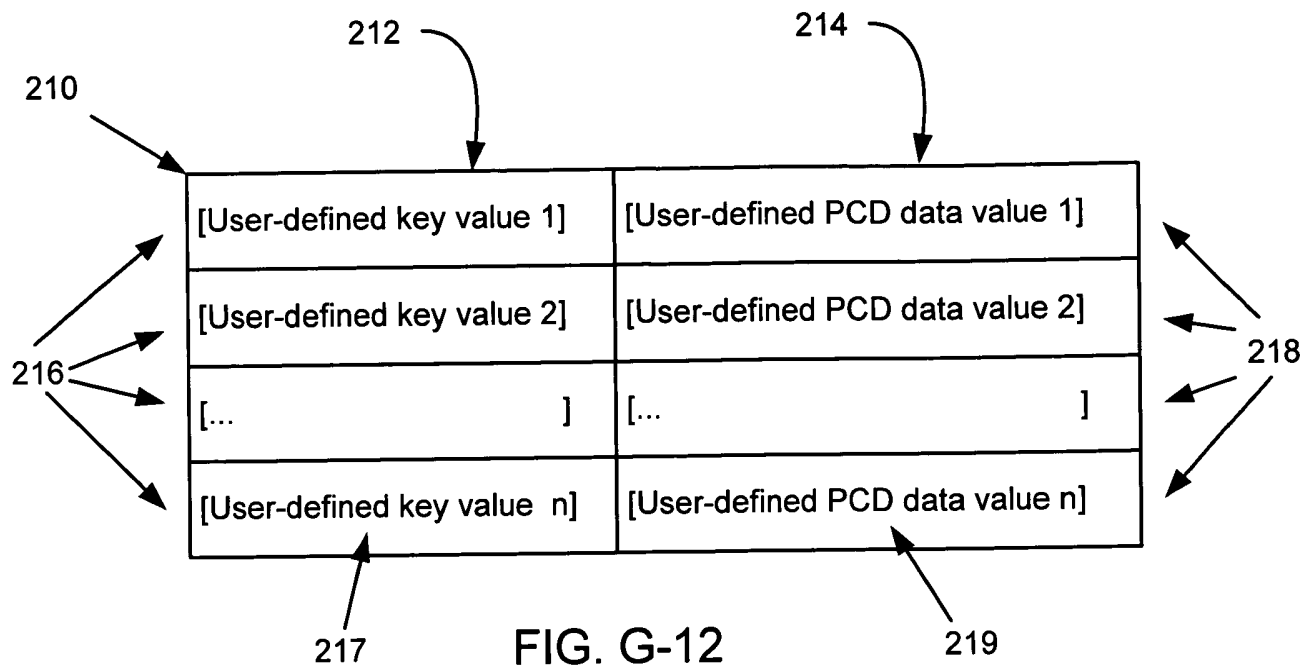


FIG. G-13

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002201-3106360

FIG. G-
8

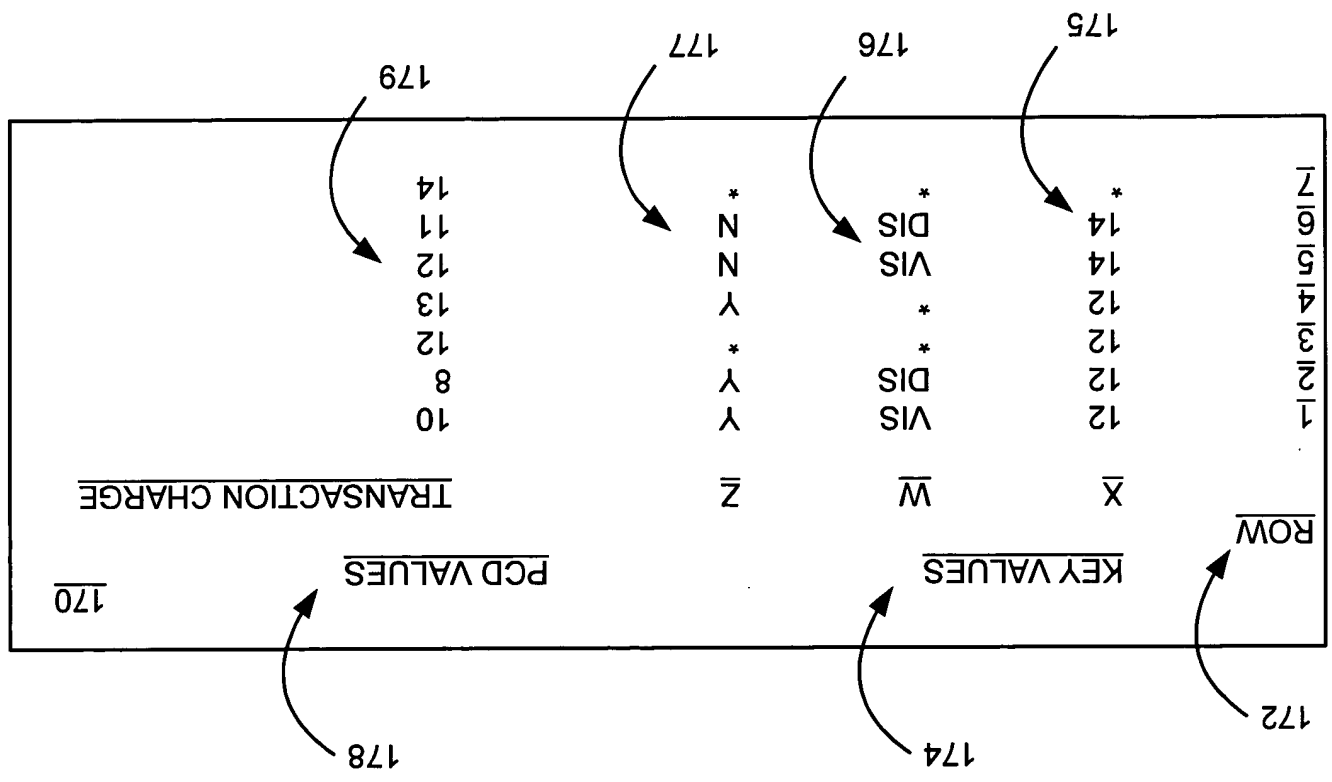
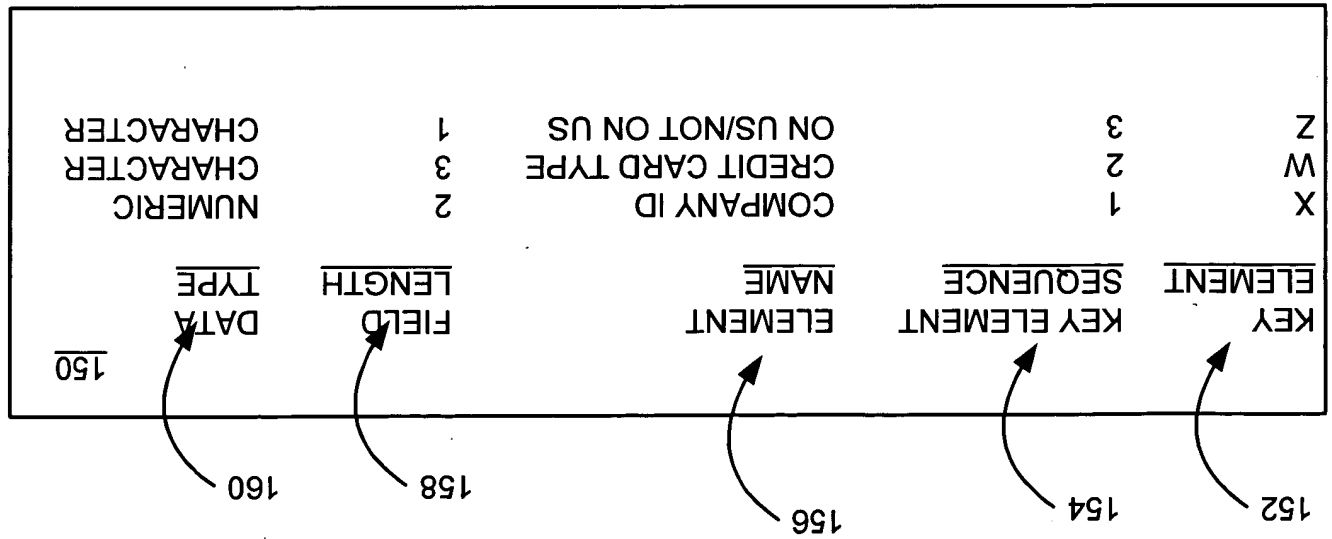


FIG. G-
7



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002201" 5F005560

KEY ELEMENT:	PROCESSING KEY VALUES			PCD TABLE ROW	TRANSACTION CHARGE
	<u>X</u>	<u>W</u>	<u>Z</u>		
SEARCH 1:	12	DIS	Y	2	8
SEARCH 2:	12	MSC	Y	-	-
	12	*	Y	4	13
SEARCH 3:	12	MSC	N	-	-
	12	*	N	-	-
	12	*	*	3	12
SEARCH 4:	14	MSC	N	-	-
	14	*	N	-	-
	14	*	*	-	-
	*	*	*	7	14

FIG. G-
14